

**GENERAL
ELECTRIC
COMPANY**



**SUPPLIES
1909**



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*GENERAL
ELECTRIC
COMPANY*



SUPPLIES

March, 1909

*Supply Department
Schenectady, N. Y.
Supersedes No. 7603*

No. 4645

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by General Electric Company*

INTRODUCTION

REALIZING from experience the usefulness of a general ordering catalogue of supplies, and believing that the interests of both this Company and its patrons can be furthered by the use of such a publication, the General Electric Company has completely revised its 1907 Supply Catalogue, removing obsolete data and adding much that will be of interest and assistance to prospective customers. The catalogue numbers, by which most of the supplies are designated, should be used invariably when orders are being placed. Attention is called to the "Advice regarding the placing of orders" on the following page.

Customers should bear in mind that these prices and data are published for their convenience, and every effort is made to avoid error, but this Company does not guarantee their correctness, nor does it hold itself responsible for any errors or omissions in this publication. Both prices and data are subject to change without notice.

ADVICE REGARDING THE PLACING OF ORDERS

1. Orders and correspondence regarding orders must always be sent to our nearest Sales Office.
2. Catalogue numbers should, when possible, be used. When ordering an article which is not standard in every respect, specify that the article is to be "similar to Cat. No. ,", and state the modifications which must be made.
3. Do not order—"same as last." If advisable to refer to a previous order give its date, number, and our invoice number, so that delay in locating it may be avoided.
4. An order should contain a specific description of the desired material. Repair parts cannot be supplied without delay unless catalogue numbers are used, or a full description is given of the parts. In every case, it is absolutely imperative that the full name-plate rating as well as the serial number of the machine be given. We are now furnishing parts for machines made at seven factories, each of which has its own series of numbers. The filling of orders for repair parts may be facilitated by mentioning any stamping or lettering appearing on the desired parts.
5. State distinctly how goods are to be shipped, whether by freight, express or mail. If a special route is preferred, say so. Packages weighing from 4 to 10 pounds are shipped by express regardless of instructions on the order. On packages weighing less than 4 pounds the express rate is looked up, and shipment is made by express or mail, whichever is cheaper. In order that we may properly send notices of shipments, the post office address should be specified, especially when it differs from the shipping address.
6. Since careful attention, by experienced boxers, is given the packing of goods, especially glassware, and receipts for delivery in good condition are obtained from the carriers, this Company cannot be held responsible for material lost or damaged in transportation. However, all possible precautions will be taken to prevent injury or delay, and shipments will be traced when requested. All claims for breakage should be presented to transportation companies handling the shipment. We will gladly co-operate with our customers in having such claims adjusted by the carriers.
7. All claims must be made within three days of the receipt of goods, and should be accompanied by the package slip that was sent with the shipment.
8. Upon referring to orders, always give the number and date of your order as well as the name of the consignee of goods.
9. Do not return material of any kind without first communicating with the nearest Sales Office and obtaining, first, their approval for returning goods; second, returned apparatus tags giving proper shipping directions.
10. All returned goods should be plainly marked with the name and address of the sender and proper notice of shipment, with shipping receipt, sent to the Sales Office.
11. Prices are subject to change without notice.
12. All prices, unless otherwise specified, cover delivery f.o.b. point of manufacture. Charge for boxing will be made in accordance with our regular custom. We pay glass manufacturers for casks, and sell same to customers at cost.
- Delicate instruments and all foreign shipments require special boxing and packing, for which charge is made.
13. Cable reels are credited at full price when returned in good condition, transportation charges prepaid.
14. Transformer oil, when ordered in sufficient quantities, is shipped in fifty-gallon tanks. These are charged to the customer, but are credited at full price when returned in good condition, transportation charges prepaid.

HEATING DEVICES

ELECTRIC HEATING DEVICES

The General Electric Company has a very complete line of heating devices which will form an exceedingly useful adjunct to the furnishing of the home, or the equipment of hotels, hospitals, shops, etc.

A detailed description of these devices is contained in the Company's catalog and flyers on this subject, which will be gladly forwarded upon request.

FLATIRONS

THREE-POUND FLATIRON—NICKEL FINISH

The 3-lb. iron may be attached to any lighting socket and is useful for light laundry purposes or in the sewing room.



6-lb Iron with Plain
Attaching Plug

Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
38123	250	95-105	\$5.25	47354	250	200-225	\$6.00
38124	250	106-115	5.25	47355	250	226-250	6.00
38125	250	116-125	5.25				

NOTE.—Three-pound irons equipped with combination indicating switch Cat. No. 76627, add \$0.75 to price.

SIX-POUND FLATIRON—WITH CARTRIDGE UNIT

The 6-lb. iron is intended for general laundry use and the heavy work of the household.

SIX-POUND F-10 IRON

ALUMINUM FINISH

FULL NICKEL PLATED

GUN METAL FINISH

Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
*75109	600	95-105	\$5.75	*75114	600	95-105	\$6.25	*75119	600	95-105	\$6.25
†75140			6.50	†75145			7.00	†75150			7.00
*75110	600	106-115	5.75	*75115	600	106-115	6.25	*75120	600	106-115	6.25
†75141			6.50	†75146			7.00	†75151			7.00
*75111	600	116-125	5.75	*75116	600	116-125	6.25	*75121	600	116-125	6.25
†75142			6.50	†75147			7.00	†75152			7.00
*75112	600	200-225	6.50	*75117	600	200-225	7.00	*75122	600	200-225	7.00
†75143			7.25	†75148			7.75	†75153			7.75
*75113	600	226-250	6.50	*75118	600	226-250	7.00	*75123	600	226-250	7.00
†75144			7.25	†75149			7.75	†75154			7.75

* Includes Cat. No. 75170, Plain Attaching Plug, with clip, 8 ft. of cable and socket attaching plug.

† Includes Cat. No. 75171, Combination Indicating Switch Plug, with clip, 8 ft. of cable and socket attaching plug.

SIX-POUND F-13 FLAT IRON WITH FLAT UNIT
WITH DETACHABLE PLAIN PLUGFIVE-POUND F-14 FLAT IRON WITH FLAT UNIT
WITH DETACHABLE PLAIN PLUG

Cat. No.	Voltage	Watts	Finish	Price	Cat. No.	Voltage	Watts	Finish	Price
76384	95-105	550	Nickel	\$6.25	76375	95-105	450	Nickel	\$6.00
76385	106-115	550	Nickel	6.25	76376	106-115	450	Nickel	6.00
76386	116-125	550	Nickel	6.25	76377	116-125	450	Nickel	6.00

WITH PERMANENTLY ATTACHED CORD

WITH PERMANENTLY ATTACHED CORD

Cat. No.	Voltage	Watts	Finish	Price	Cat. No.	Voltage	Watts	Finish	Price
76390	95-105	550	Nickel	6.25	76381	95-105	450	Nickel	6.00
76391	106-115	550	Nickel	6.25	76382	106-115	450	Nickel	6.00
76392	116-125	550	Nickel	6.25	76383	116-125	450	Nickel	6.00

WITH DETACHABLE INDICATING SWITCH PLUG

WITH DETACHABLE INDICATING SWITCH PLUG

Cat. No.	Voltage	Watts	Finish	Price	Cat. No.	Voltage	Watts	Finish	Price
76387	95-105	550	Nickel	7.00	76378	95-105	450	Nickel	6.75
76388	106-115	550	Nickel	7.00	76379	106-115	450	Nickel	6.75
76389	116-125	550	Nickel	7.00	76380	116-125	450	Nickel	6.75

HEATING DEVICES

EIGHT-POUND FLATIRON

The 8-lb. iron is for use on very heavy or wet goods.

Aluminum Finish				EIGHT-POUND F-11 IRON Gun Metal Finish				Full Nickel Finish			
Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
*75124	600	95-105	\$6.75	*75134	600	95-105	\$7.25	*75129	600	95-105	\$7.25
†75155			7.50	†75165			8.00	†75160			8.00
*75125			6.75	*75135			7.25	*75130			7.25
†75156	600	106-115	7.50	†75166	600	106-115	8.00	†75161	600	106-115	8.00
*75126			6.75	*75137			7.25	*75131			7.25
†75157			7.50	†75167			8.00	†75162			8.00
*75127	600	116-125	7.50	*75138	600	116-125	8.00	*75132	600	116-125	8.00
†75158			8.25	†75168			8.75	†75163			8.75
*75128			7.50	*75139			8.00	*75133			8.00
†75159	600	200-225	8.25	†75169	600	200-225	8.75	†75164	600	200-225	8.75
	600	226-250	8.25		600	226-250	8.75		600	226-250	8.75

* Includes Cat. No. 75170, Plain Attaching Plug, with clip, 8 ft. of cable and socket attaching plug.

† Includes Cat. No. 75171, Combination Indicating Switch Plug, with clip, 8 ft. of cable and socket attaching plug.

TAILORS' FLATIRON—CARTRIDGE UNIT

TWELVE-POUND—NICKEL PLATED FIFTEEN-POUND—NICKEL PLATED



Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
45320	750	95-105	\$11.50	47356	750	95-105	\$12.00
45321	750	106-115	11.50	47357	750	106-115	12.00
45322	750	116-125	11.50	47358	750	116-125	12.00
45323	750	200-225	12.25	47359	750	200-225	12.75
45324	750	226-250	12.25	47360	750	226-250	12.75

EIGHTEEN-POUND—NICKEL PLATED TWENTY-FOUR-POUND—NICKEL PLATED

47361	750	95-105	\$12.75	47366	1000	95-105	\$14.50
47362	750	106-115	12.75	47367	1000	106-115	14.50
47363	750	116-125	12.75	47368	1000	116-125	14.50
47364	750	200-225	13.50	47369	1000	200-225	15.25
47365	750	226-250	13.50	47370	1000	226-250	15.25

NOTE.—These irons are each furnished with a permanently connected plug and cord. Current is turned on or off by an indicating switch placed conveniently to the operator.

HEATING STAND FOR 6- AND 8-POUND ELECTRIC FLATIRONS



Cat. No.	Description	Price
75917	Stand (does not include irons).....	\$7.00

CARTRIDGE UNITS FOR HEATING DEVICES

FLATIRONS

Description	Price Each	Description	Price Each	Description	Price Each
3 lb., 110 volts.....	\$2.25	12 lb., 110 volts.....	\$4.00	24 lb., 110 volts.....	\$4.00
220 volts.....	3.00	220 volts.....	6.50	220 volts.....	6.50
6 lb., 110 volts.....	2.25	15 lb., 110 volts.....	4.00		
220 volts.....	3.00	220 volts.....	6.50		
8 lb., 110 volts.....	2.25	18 lb., 110 volts.....	4.00		
220 volts.....	3.00	220 volts.....	6.50		



WATER HEATERS

PINT WATER HEATER

QUART WATER HEATER

Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
76214	400	95-105	\$5.00	76217	500	95-105	\$6.50
76215	400	106-115	5.00	76218	500	106-115	6.50
76216	400	116-125	5.00	76219	500	116-125	6.50

HEATING DEVICES

TWO-QUART WATER HEATER—THREE-HEAT

Cat. No.	WATTS			Volts	Price	Cat. No.	WATTS			Volts	Price
	Low	Medium	High				Low	Medium	High		
†42661	250	500	1000	95-105	*\$12.00	†42388	250	500	1000	200-225	*\$12.00
†42662	250	500	1000	106-115	*\$12.00	†42389	250	500	1000	226-250	*\$12.00
†39742	250	500	1000	116-125	*\$12.00						

FOUR-QUART WATER HEATER
THREE-HEAT

†45294	285	575	1150	95-105	*\$14.00
†45295	285	575	1150	106-115	*\$14.00
†45296	285	575	1150	116-125	*\$14.00
†45297	285	575	1150	200-225	*\$14.00
†45298	285	575	1150	226-250	*\$14.00

SIX-QUART WATER HEATER
THREE-HEAT

†42663	325	650	1300	95-105	*\$18.00
†42664	325	650	1300	106-115	*\$18.00
†39743	325	650	1300	116-125	*\$18.00
†43273	325	650	1300	200-225	*\$18.00
†43274	325	650	1300	226-250	*\$18.00

† Cat. No. does not include 3-heat switch.
* Price includes 3-heat switch.

COMBINATION COOKERS

ONE-QUART—SINGLE-HEAT

TWO-QUART—THREE-HEAT

Cat. No.	WATTS			Volts	Price	Cat. No.	WATTS			Volts	Price
	Low	Medium	High				Low	Medium	High		
42865		500		95-105	*\$10.50	†42863	250	500	1000	95-105	*\$15.00
42866		500		106-115	*\$10.50	†42864	250	500	1000	106-115	*\$15.00
41239		500		116-125	*\$10.50	†39759	250	500	1000	116-125	*\$15.00
43275		500		200-225	*\$10.50	†43277	250	500	1000	200-225	*\$15.00
43276		500		226-250	*\$10.50	†43278	250	500	1000	226-250	*\$15.00



FOUR-QUART—THREE-HEAT

SIX-QUART—THREE-HEAT

†45299	285	575	1150	95-105	*\$19.00	†45304	325	650	1300	95-105	*\$22.00
†45300	285	575	1150	106-115	*\$19.00	†45305	325	650	1300	106-115	*\$22.00
†45301	285	575	1150	116-125	*\$19.00	†45306	325	650	1300	116-125	*\$22.00
†45302	285	575	1150	200-225	*\$19.00	†45307	325	650	1300	200-225	*\$22.00
†45303	285	575	1150	226-250	*\$19.00	†45308	325	650	1300	226-250	*\$22.00

† Cat. No. does not include 3-heat switch.
* Price includes 3-heat switch.

TEA KETTLES

TWO-QUART—TWO-HEAT

FOUR-QUART—THREE-HEAT

Cat. No.	WATTS		Volts	Price	Cat. No.	WATTS			Volts	Price
	Low Heat	High Heat				Low Heat	High Heat	Medium Heat		
75098	220	575	95-105	\$9.50	75103	285	575	1150	95-105	\$14.00
75099	220	575	106-115	9.50	75104	285	575	1150	106-115	14.00
75100	220	575	116-125	9.50	75105	285	575	1150	116-125	14.00
					75106	285	575	1150	200-225	14.00
					75107	285	575	1150	226-250	14.00

CHAFING DISH—WITH QUARTZ ENAMEL HEATING UNIT
TWO-HEAT

Cat. No.	WATTS		Volts	Price	Cat. No.	WATTS		Volts	Price
	Low Heat	High Heat				Low Heat	High Heat		
42670	220	575	95-105	\$12.00	42392	220	575	200-225	\$12.00
42671	220	575	106-115	12.00	42393	220	575	226-250	12.00
39520	220	575	116-125	12.00					



HEATING DEVICES

COFFEE PERCOLATOR—WITH ENCASED DISK UNIT



Cat. No.	Capacity	Watts	Volts	Price	Cat. No.	Capacity	Watts	Volts	Price
76195	1½ Pints	400	95-105	\$13.50	76204	3 Pints	500	116-125	\$15.50
76196	"	400	106-115	13.50	76205	2 Quarts	500	95-105	18.00
76197	"	400	116-125	13.50	76206	"	500	106-115	18.00
76198	3 Pints	500	95-105	15.50	76207	"	500	116-125	18.00
76199	"	500	106-115	15.50					

RADIANT TOASTER

EQUIPPED WITH 6-FT. CORD AND
ATTACHING PLUG, COMPLETE

WITHOUT CORD AND ATTACHING PLUG



Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
75962	600	95-102	\$4.50	76192	600	95-102	\$3.00
76697	600	103-107	4.50	76698	600	103-107	3.00
75963	600	108-112	4.50	76193	600	108-112	3.00
75964	600	113-117	4.50	76194	600	113-117	3.00
76200	600	118-122	4.50	76202	600	118-122	3.00
76201	600	123-127	4.50	76203	600	123-127	3.00

Unless specified on order Toasters are shipped complete with cords and attaching plugs. The ordinary G.E. flatiron cord and plug is suitable for this device.

CORN POPPER



Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
45027	300	95-105	\$5.75	45030	300	200-225	\$5.75
45028	300	106-115	5.75	45031	300	226-250	5.75
45029	300	116-125	5.75				

FRYING PANS

FIVE-INCH—SINGLE HEAT



Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
42672	500	95-105	\$6.50	42394	500	200-225	\$6.50
42673	500	106-115	6.50	42395	500	226-250	6.50
39521	500	116-125	6.50				

SEVEN-INCH—TWO-HEAT

TEN-INCH—THREE-HEAT

Cat. No.	WATTS		Volts	Price	Cat. No.	WATTS			Volts	Price
	Low Heat	High Heat				Low Heat	Medium Heat	High Heat		
42674	220	575	95-105	\$8.00	†42676	325	650	1300	95-105	*\$14.00
42675	220	575	106-115	8.00	†42677	325	650	1300	106-115	*14.00
39522	220	575	116-125	8.00	†39745	325	650	1300	116-125	*14.00
42396	220	575	200-225	8.00						
42397	220	575	226-250	8.00						

† Cat. No. does not include 3-heat switch.

* Price includes 3-heat switch.

DISK STOVES—CARTRIDGE UNIT TYPE

ONE-HEAT

Cat. No.	Size in In.	Watts	Volts	Price	Cat. No.	Size in In.	Watts	Volts	Price
38651	6	600	95-105	\$5.25	43483	6	600	200-225	\$6.00
76616	6	600	106-115	5.25	43484	6	600	226-250	6.00
76617	6	600	116-125	5.25					

HEATING DEVICES

DISK STOVES—CARTRIDGE UNIT TYPE—Concluded
THREE-HEAT

Cat. No.	Size in In.	WATTS			Volts	Price	Cat. No.	Size in In.	WATTS			Volts	Price
		Low Heat	Medium Heat	High Heat					Low Heat	Medium Heat	High Heat		
†40811	8	225	450	900	95-105	*\$11.25	†40813	10	265	800	1200	95-105	*\$14.50
†38652	8	225	450	900	106-115	*\$11.25	†38653	10	265	800	1200	106-115	*\$14.50
†40812	8	225	450	900	116-125	*\$11.25	†40814	10	265	800	1200	116-125	*\$14.50
†43485	8	225	450	900	200-225	*\$13.00	†43487	10	265	800	1200	200-225	*\$16.50
†43486	8	225	450	900	226-250	*\$13.00	†43488	10	265	800	1200	226-250	*\$16.50

NOTE.—Size in inches means diameter across top plate.

† Cat. No. does not include 3-heat switch.

* Price includes 3-heat switch.

GRID

The grid consists of a smoothly polished flat-top aluminum casting 9" x 12" supported on four malleable iron legs six inches long.

THREE-HEAT (9 IN. BY 12 IN.)



Cat. No.	WATTS			Volts	Price	Cat. No.	WATTS			Volts	Price
	Low Heat	Medium Heat	High Heat				Low Heat	Medium Heat	High Heat		
†40328	225	450	900	95-105	*\$16.50	†43491	225	450	900	200-225	*\$18.00
†40329	225	450	900	106-115	*\$16.50	†43492	225	450	900	226-250	*\$18.00
†40330	225	450	900	116-125	*\$16.50						

† Cat. No. does not include 3-heat switch.

* Price includes 3-heat switch.

BROILER

Made of cast iron, with machine finished top and aluminum finished standard. Size 9 in. x 12 in.

THREE-HEAT (9 IN. BY 12 IN.)



Cat. No.	WATTS			Volts	Price	Cat. No.	WATTS			Volts	Price
	Low Heat	Medium Heat	High Heat				Low Heat	Medium Heat	High Heat		
†40815	265	800	1200	95-105	*\$15.50	†43489	265	800	1200	200-225	*\$17.50
†38654	265	800	1200	106-115	*\$15.50	†43490	265	800	1200	226-250	*\$17.50
†40816	265	800	1200	116-125	*\$15.50						

† Cat. No. does not include 3-heat switch.

* Price includes 3-heat switch.

BAKING OVEN

The electric oven does not sensibly increase the temperature of the room. The heat can be regulated perfectly and the time taken for ordinary baking will be found to be about the same as with coal or gas, but with better heat efficiency.

The inside of the oven is 18 in. wide, 13 $\frac{1}{4}$ in. high, and 11 in. deep. The oven weighs 63 lbs. net.

BAKING OVEN—THREE HEATS



Cat. No.	WATTS			Volts	Price	Cat. No.	WATTS			Volts	Price
	Low Heat	Medium Heat	High Heat				Low Heat	Medium Heat	High Heat		
†76611	550	1100	2200	95-105	*\$34.00	†76614	550	1100	2200	200-225	*\$34.00
†76612	550	1100	2200	106-115	*\$34.00	†76615	550	1100	2200	226-250	*\$34.00
†76613	550	1100	2200	116-125	*\$34.00						

† Cat. No. does not include 3-heat switch.

* Price includes 3-heat switch.

HEATING DEVICES

COOKING AND BAKING OUTFITS

The Forms 1 and 2 Outfits are composed of the following:



FORM 1 OUTFIT

Form 1 Table.
Broiler.
Oven.
Coffee Percolator.
Grid.
7-inch Frying Pan.
2-qt. Combination Cooker.
2-qt. Tea Kettle.

FORM 2 OUTFIT

Form 2 Table.
Broiler.
Oven.
Coffee Percolator.
Grid.
10-inch Frying Pan.
2-qt. Combination Cooker.
4-qt. Combination Cooker.
4-qt. Tea Kettle.

Prices on application.



HEATING PAD

This device is more than a substitute for the hot water bottle. It is always ready, maintains any one of three temperatures which may be determined by a three-point regulating switch, and weighs only 11 oz. The regular pad is furnished with a washable slip, but a special waterproof style can be furnished on order. The pad takes no more current than an ordinary incandescent lamp.



Cat. No.	Watts	Volts	Size in Inches	\$ Net
†40800	55	95-125	11 x 15 x 1/4	\$6.40
*60342	55	95-125	11 x 15 x 1/4	6.40

† For ordinary domestic use to replace hot water bottles, felt covered with washable slip cover.

* Special for moist heat in cases when the effect of a poultice is desired. Rubber cloth cover.

‡ Consumers.

HOT WATER CUP



Cat. No.	Watts	Volts	Price
44303	150	95-125	\$3.00

CIGAR LIGHTERS

INTERMITTENT TABLE TYPE—OXIDIZED FINISH



Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
75234	75	95-105	\$2.75	75921	75	116-125	\$2.75
75920	75	106-115	2.75				

INTERMITTENT PENDENT TYPE—OXIDIZED FINISH

CONTINUOUS PENDENT TYPE—NICKEL FINISH



Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
39523	75	95-105	\$2.75	75235	25	95-105	\$2.50
75922	75	106-115	2.75	75925	25	106-115	2.50
75927	75	116-125	2.75	75926	25	116-125	2.50



INTERMITTENT CIGAR LIGHTER PLUGS

CONTINUOUS CIGAR LIGHTER PLUGS

Cat. No.	Watts	Volts	Price	Cat. No.	Watts	Volts	Price
75236	75	95-105	\$1.00	75239	25	95-105	\$1.00
75237	75	106-115	1.00	75240	25	106-115	1.00
75238	75	116-125	1.00	75241	25	116-125	1.00

All orders should specify the voltage of the line on which the Cigar Lighters are to be operated.

HEATING DEVICES

GLUE POT

The water bath used in connection with the ordinary glue pot is unnecessary in this design of pot, which is self-regulating.

When these pots are used at their rated voltages it is impossible to burn the glue even if the current is left on a sufficient length of time to dry the glue into a solid mass.



Size	Weight in Pounds	Total Height in In.	Outside Diam. in In.
1 qt.	2 $\frac{3}{4}$	6 $\frac{1}{2}$	5
2 qts.	3 $\frac{1}{2}$	8	6
1 gal.	7	9	7 $\frac{1}{2}$

SINGLE-HEAT

Cat. No.	Capacity in Quarts	Watts	Volts	Price	Cat. No.	Capacity in Quarts	Watts	Volts	Price
47395	1	70	95-105	\$10.00	48425	4	140	106-115	\$15.00
48331	1	70	106-115	10.00	47404	4	140	116-125	15.00
47396	1	70	116-125	10.00	43499	4	140	200-225	17.00
47397	2	90	95-105	12.00	43500	4	140	226-250	17.00
48424	2	90	106-115	12.00	48426	8	250	95-105	25.00
47398	2	90	116-125	12.00	48427	8	250	106-115	25.00
43497	2	90	200-225	14.50	48428	8	250	116-125	25.00
43498	2	90	226-250	14.50	43503	8	250	200-225	27.00
47403	4	140	95-105	15.00	43504	8	250	226-250	27.00

LUMINOUS RADIATORS

The Luminous Radiator gives quick local heat and is especially advantageous in taking the chill out of bath rooms, dining rooms, etc.; it is not intended for continuous use. It is furnished complete with frosted globes.

FLAT TOP



Cat. No.	Finish	Watts	Volts	Price	Cat. No.	Finish	Watts	Volts	Price
42176	Oxidized	750	95-105	\$17.50	42180	Oxidized	1500	95-105	\$18.50
76639	Nickel	750	95-105	18.25	76643	Nickel	1500	95-105	19.25
42177	Oxidized	750	106-115	17.50	42181	Oxidized	1500	106-115	18.50
76640	Nickel	750	106-115	18.25	76644	Nickel	1500	106-115	19.25
42178	Oxidized	750	116-125	17.50	42182	Oxidized	1500	116-125	18.50
76641	Nickel	750	116-125	18.25	76645	Nickel	1500	116-125	19.25
42179	Oxidized	750	200-225	18.50	43548	Oxidized	1500	200-225	19.50
76642	Nickel	750	200-225	19.25	76646	Nickel	1500	200-225	20.25

MANTEL TYPE

For permanent installation in standard mantel openings.

These mantel frames are made in two sizes—24 in. by 30 in. and 30 in. by 30 in. The 24 in. width has three standard 250 or 500 watt radiator lamps. The 30 in. width has four 250 or 500 watt radiator lamps.

A double pole flush push switch in the upper right-hand corner controls the circuit.

Either size will be furnished in oxidized copper or brushed brass finish.

BRUSHED BRASS FINISH

OXIDIZED COPPER FINISH



Cat. No.	Size	Volts	Watts	Price	Cat. No.	Size	Volts	Watts	Price
75180	24x30	95-105	750	\$22.00	75172	24x30	95-105	750	\$22.00
75181		106-115	750	22.00	75173		106-115	750	22.00
75182		116-125	750	22.00	75174		116-125	750	22.00
75183		200-225	750	25.00	75175		200-225	750	25.00
75184		95-105	1500	23.00	75176		95-105	1500	23.00
75185	30x30	106-115	1500	23.00	75177	30x30	106-115	1500	23.00
75186		116-125	1500	23.00	75178		116-125	1500	23.00
75187		200-225	1500	26.00	75179		200-225	1500	26.00
75196		95-105	1000	27.00	75188		95-105	1000	27.00
75197		106-115	1000	27.00	75189		106-115	1000	27.00
75198	30x30	116-125	1000	27.00	75190	30x30	116-125	1000	27.00
75199		200-225	1000	30.00	75191		200-225	1000	30.00
75200		95-105	2000	28.00	75192		95-105	2000	28.00
75201		106-115	2000	28.00	75193		106-115	2000	28.00
75202		116-125	2000	28.00	75194		116-125	2000	28.00
75203		200-225	2000	31.00	75195		200-225	2000	31.00

HEATING DEVICES

TUBULAR AIR HEATERS

The latest design in air heaters is the Tubular Type developed by the General Electric Company. This type consists of tubular heating elements enclosed in metal "chimney" tubes as shown in the accompanying illustration. Heaters are made in both floor and wall types containing four, six and eight tubes.

The dimensions of Floor and Wall Type Tubular Heaters are as follows:



Wall Type Tubular
Air Heater

No. Tubes	DIMENSIONS IN INCHES		
	Height	Width	Depth
4-Tube	29 $\frac{1}{2}$	17 $\frac{1}{2}$	9 $\frac{1}{2}$
6-Tube	25	21	10 $\frac{1}{2}$
8-Tube	29	30 $\frac{1}{2}$	10 $\frac{1}{2}$

FOR DOMESTIC HEATING

FLOOR TYPE

WALL TYPE

Cat. No.	No. Tubes	Voltage	Watts	Price	Cat. No.	No. Tubes	Voltage	Watts	Price
*75209	4	95-105	1200	\$19.00	*75204	4	95-105	1200	\$20.00
*75210	4	106-115	1200	19.00	*75205	4	106-115	1200	20.00
*75211	4	116-125	1200	19.00	*75206	4	116-125	1200	20.00
*75212	4	200-225	1200	19.00	*75207	4	200-225	1200	20.00
*75213	4	226-250	1200	19.00	*75208	4	226-250	1200	20.00
*75219	6	95-105	1800	25.00	*75214	6	95-105	1800	26.00
*75220	6	106-115	1800	25.00	*75215	6	106-115	1800	26.00
*75221	6	116-125	1800	25.00	*75216	6	116-125	1800	26.00
*75222	6	200-225	1800	25.00	*75217	6	200-225	1800	26.00
*75223	6	226-250	1800	25.00	*75218	6	226-250	1800	26.00
75229	8	95-105	2400	28.00	75224	8	95-105	2400	29.00
75230	8	106-115	2400	28.00	75225	8	106-115	2400	29.00
75231	8	116-125	2400	28.00	75226	8	116-125	2400	29.00
75232	8	200-225	2400	28.00	75227	8	200-225	2400	29.00
75233	8	226-250	2400	28.00	75228	8	226-250	2400	29.00
*75499	4	95-105	2000	19.00	*75494	4	95-105	2000	20.00
*75500	4	106-115	2000	19.00	*75495	4	106-115	2000	20.00
*75544	4	116-125	2000	19.00	*75496	4	116-125	2000	20.00
*75547	4	200-225	2000	19.00	*75497	4	200-225	2000	20.00
*75552	4	226-250	2000	19.00	*75498	4	226-250	2000	20.00
75671	6	95-105	3000	22.00	75553	6	95-105	3000	23.00
75672	6	106-115	3000	22.00	75596	6	106-115	3000	23.00
75673	6	116-125	3000	22.00	75597	6	116-125	3000	23.00
75674	6	200-225	3000	22.00	75662	6	200-225	3000	23.00
75675	6	226-250	3000	22.00	75670	6	226-250	3000	23.00
75681	8	95-105	4000	28.00	75676	8	95-105	4000	29.00
75682	8	106-115	4000	28.00	75677	8	106-115	4000	29.00
75683	8	116-125	4000	28.00	75678	8	116-125	4000	29.00
75684	8	200-225	4000	28.00	75679	8	200-225	4000	29.00
75685	8	226-250	4000	28.00	75680	8	226-250	4000	29.00

* Equipped with four feet of heater cord and three-heat switch.

FOR CENTRAL STATION HEATING

FLOOR TYPE

WALL TYPE

Cat. No.	No. Tubes	Voltage	Watts	Price	Cat. No.	No. Tubes	Voltage	Watts	Price
75249	4	95-105	2500	\$16.50	75244	4	95-105	2500	\$17.50
75250	4	106-115	2500	16.50	75245	4	106-115	2500	17.50
75251	4	116-125	2500	16.50	75246	4	116-125	2500	17.50
75252	4	200-225	2500	16.50	75247	4	200-225	2500	17.50
75253	4	226-250	2500	16.50	75248	4	226-250	2500	17.50
75259	6	95-105	3750	22.00	75254	6	95-105	3750	23.00
75260	6	106-115	3750	22.00	75255	6	106-115	3750	23.00
75261	6	116-125	3750	22.00	75256	6	116-125	3750	23.00
75262	6	200-225	3750	22.00	75257	6	200-225	3750	23.00
75263	6	226-250	3750	22.00	75258	6	226-250	3750	23.00
75269	8	95-105	5000	28.00	75264	8	95-105	5000	29.00
75270	8	106-115	5000	28.00	75265	8	106-115	5000	29.00
75271	8	116-125	5000	28.00	75266	8	116-125	5000	29.00
75272	8	200-225	5000	28.00	75267	8	200-225	5000	29.00
75273	8	226-250	5000	28.00	75268	8	226-250	5000	29.00

ARC LIGHTING

ARC LAMPS

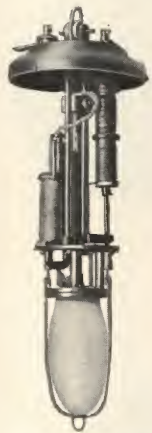
When ordering arc lamps or accessories the catalogue numbers should always be specified, as delays are thus avoided. Customers should specify the following points when placing orders:

- First: Series or multiple type of lamp.
 Second: Alternating or direct current.
 Third: Open or closed base enclosing globe.
 Fourth: Voltage of lamp if of multiple type.
 Fifth: Current consumption and frequency.
 Sixth: Length of upper carbon if alternating current type.
 Seventh: Style of outer globe or reflector.
 Eighth: Catalogue number of lamp.
 Ninth: Finish of casing.
 Tenth: Catalogue number of casing.
 Eleventh: Number of outer globe or reflector.
 Twelfth: Clear or light opal enclosing and outer globes.

**DIRECT CURRENT ENCLOSED ARC LAMPS
FOR 100 TO 125 VOLT MULTIPLE CIRCUITS**

CLOSED BASE TYPE

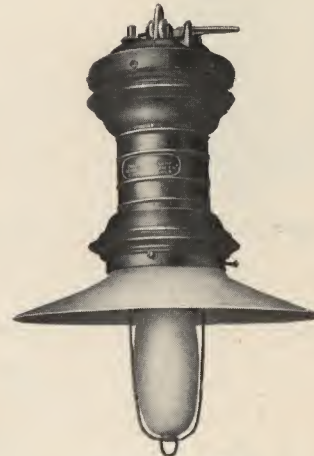
Amp.	CARBON DIMENSIONS IN INCHES		Style of Outer Globe or Reflector	Cat. No.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
6½	12	½	13261	9572	3563	Black oxidized copper	46
5	12	½		9525	3545	Black enamel	46
3½	12	½		9528	3559	Streaked oxidized copper	46
5	12	½	5	9525	3564	Black enamel	46
3½	12	½		9528	3567	Streaked oxidized copper	46
6½	12	½		9572	3565	Black oxidized copper	46



Lamp Cat. No. 9525

OPEN BASE TYPE

Amp.	CARBON DIMENSIONS IN INCHES		Style of Outer Globe or Reflector	Cat. No.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
6½	12	½	1	9573	3516	Black enamel	3
5	12	½		9526	3562	Black oxidized copper	
3½	12	½		9529	3558	Streaked oxidized copper	
6½	12	½	13261	9574	3545	Black enamel	3
5	12	½		9527	3563	Black oxidized copper	
3½	12	½		9530	3559	Streaked oxidized copper	
6½	12	½	5	9574	3564	Black enamel	3
5	12	½		9527	3565	Black oxidized copper	
3½	12	½		9530	3567	Streaked oxidized copper	



Lamp Cat. No. 9525
Casing Cat. No. 3545

FOR POWER CIRCUITS

Two in Series on 220 Volts or Five in Series on 550 Volts

CLOSED BASE TYPE

Amp.	CARBON DIMENSIONS IN INCHES		No. of Outer Globe or Reflector	CAT. NO.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
5	12	½	13261	9535	3545 3563 3559	Black enamel Black oxidized copper Streaked oxidized copper	46 46 46
5	12	½	5	9535	3564 3565 3567	Black enamel Black oxidized copper Streaked oxidized copper	46 46 46

OPEN BASE TYPE

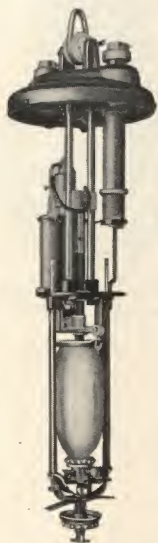
Amp.	CARBON DIMENSIONS IN INCHES		No. of Outer Globe or Reflector	CAT. NO.	† Casing Finish		Encl. Globe No.
	Length	Diam			Lamp	Casing	
5	12	½	1	9536	3516 3562 3558	Black enamel Black oxidized copper Streaked oxidized copper	3 3 3
5	12	½	13261	9537	3545 3563 3559	Black enamel Black oxidized copper Streaked oxidized copper	3 3 3
5	12	½	5	9537	3564 3565 3567	Black enamel Black oxidized copper Streaked oxidized copper	3 3 3

† Does not necessarily refer to the material of which the casing is made.

‡ Inclusive of a supporting ring with chain, screws and nuts.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

NOTE.—The casings with "Black Oxidized Copper" finish are made of copper. The casings with "Black Enamel" or "Streaked Oxidized Copper" are made of zinc.



Lamp Cat. No. 9536



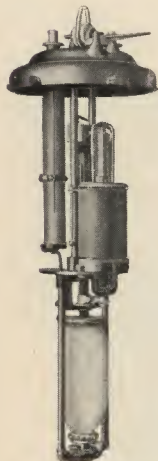
Lamp Cat. No. 9536
Casing Cat. No. 3516

ARC LIGHTING

DIRECT CURRENT ENCLOSED ARC LAMPS

FOR 200 TO 250 VOLT MULTIPLE CIRCUITS

CLOSED BASE TYPE



Lamp Cat. No. 9534

Amp.	CARBON DIMENSIONS IN INCHES		Style of Outer Globe or Reflector	CAT. NO.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
3	12	$\frac{1}{2}$	13261	9532	{ 3581 Black enamel 3582 Black oxidized copper 3584 Streaked oxidized copper		36
3	12	$\frac{1}{2}$	5	9532	{ ‡3585 Black enamel ‡3586 Black oxidized copper ‡3588 Streaked oxidized copper		36

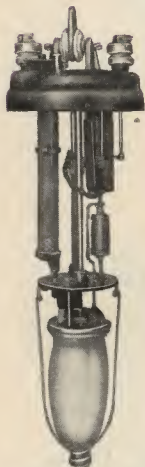
OPEN BASE TYPE

3	12	$\frac{1}{2}$	1	9533	{ 3577 Black enamel 3578 Black oxidized copper 3580 Streaked oxidized copper		3
3	12	$\frac{1}{2}$	13261	9534	{ 3581 Black enamel 3582 Black oxidized copper 3584 Streaked oxidized copper		3
3	12	$\frac{1}{2}$	5	9534	{ ‡3585 Black enamel ‡3586 Black oxidized copper ‡3588 Streaked oxidized copper		3

Lamp Cat. No. 9534
Casing Cat. No. 3585

MILL TYPE

FOR 200 TO 250 VOLT MULTIPLE CIRCUITS



Lamp Cat. No. 9577

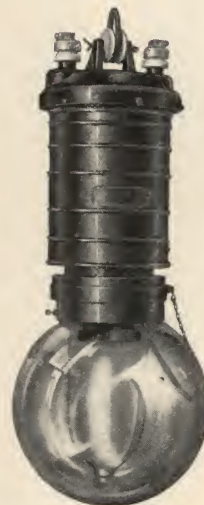
Amp.	CARBON DIMENSIONS IN INCHES		No. of Outer Globe or Reflector	CAT. NO.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
3	12	$\frac{1}{2}$	5	9577	59327	Black oxidized copper	46
3	12	$\frac{1}{2}$	5	9577	59817	Black enameled steel	46
3	12	$\frac{1}{2}$	5	9577	‡59328	Black oxidized copper	46
3	12	$\frac{1}{2}$	5	9577	‡59818	Black enameled steel	46

† Does not necessarily refer to the material of which the casing is made.

‡ Inclusive of a supporting ring with chain, screws and nuts.

NOTE.—The casings with "Black Oxidized Copper" finish are made of copper. The casings with "Black Enamel" or "Streaked Oxidized Copper" finish are made of zinc. The casings with "Black Enamel Steel" finish are made of steel.

In ordering always specify Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

Lamp Cat. No. 9577
Casing Cat. No. 59327

ARC LIGHTING

ALTERNATING CURRENT MULTIPLE ENCLOSED ARC LAMPS

FOR 100 TO 125 VOLT 60-140 CYCLE CIRCUITS

CLOSED BASE TYPE



Lamp Cat. No. 9182

Amp. at Arc	CARBON DIMENSIONS IN INCHES		Style of Outer Globe or Reflector	CAT. NO.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
4	12	$\frac{7}{16}$	13261	9099	3545	Black enamel	49
6	12	$\frac{7}{16}$		9182	3563	Black oxidized copper	
7 $\frac{1}{2}$	12	$\frac{7}{16}$		9524	3559	Streaked oxidized copper	49
8 $\frac{1}{2}$	12	$\frac{7}{16}$		9571			
4	12	$\frac{7}{16}$	9	9099	13564	Black enamel	49
6	12	$\frac{7}{16}$		9182	13565	Black oxidized copper	
7 $\frac{1}{2}$	12	$\frac{7}{16}$		9524	13567	Streaked oxidized copper	49
8 $\frac{1}{2}$	12	$\frac{7}{16}$		9571			

OPEN BASE TYPE

4	12	$\frac{7}{16}$	10	9060	3516	Black enamel	7
6	12	$\frac{7}{16}$		9090	3562	Black oxidized copper	
7 $\frac{1}{2}$	12	$\frac{7}{16}$		9091	3558	Streaked oxidized copper	
8 $\frac{1}{2}$	12	$\frac{7}{16}$		9569			
4	12	$\frac{7}{16}$	13261	9095	3545	Black enamel	7
6	12	$\frac{7}{16}$		9096	3563	Black oxidized copper	
7 $\frac{1}{2}$	12	$\frac{7}{16}$		9098	3559	Streaked oxidized copper	
8 $\frac{1}{2}$	12	$\frac{7}{16}$		9570			
4	12	$\frac{7}{16}$	9	9095	13564	Black enamel	7
6	12	$\frac{7}{16}$		9096	13565	Black oxidized copper	
7 $\frac{1}{2}$	12	$\frac{7}{16}$		9098	13567	Streaked oxidized copper	
8 $\frac{1}{2}$	12	$\frac{7}{16}$		9570			

Lamp Cat. No. 9182
Casing Cat. No. 3564

FOR 200 TO 250 VOLT CIRCUITS

CLOSED BASE TYPE

Amp. at Arc	CARBON DIMENSIONS IN INCHES		Style of Outer Globe or Reflector	CAT. NO.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
6	12	$\frac{1}{2}$	13261	9564	3545 3563 3559	Black enamel Black oxidized copper Streaked oxidized copper	49
6	12	$\frac{1}{2}$	9	9564	13564 13565 13567	Black enamel Black oxidized copper Streaked oxidized copper	49

OPEN BASE TYPE

6	12	$\frac{1}{2}$	10	9548	3516 3562 3558	Black enamel Black oxidized copper Streaked oxidized copper	7
6	12	$\frac{1}{2}$	13261	9549	3545 3563 3559	Black enamel Black oxidized copper Streaked oxidized copper	7
6	12	$\frac{1}{2}$	9	9549	13564 13565 13567	Black enamel Black oxidized copper Streaked oxidized copper	7

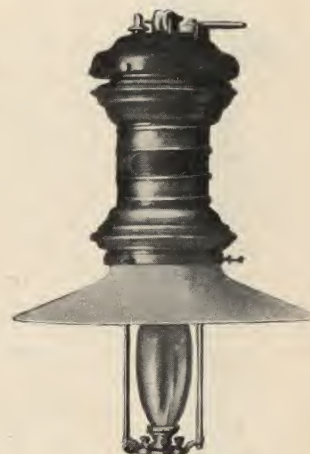
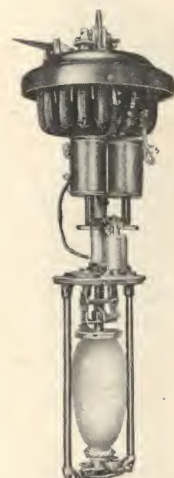
FOR 400 TO 460 VOLT CIRCUITS

CLOSED BASE TYPE

6	12	$\frac{1}{2}$	13261	9568	3545 3563 3559	Black enamel Black oxidized copper Streaked oxidized copper	49
6	12	$\frac{1}{2}$	9	9568	13564 13565 13567	Black enamel Black oxidized copper Streaked oxidized copper	49

OPEN BASE TYPE

6	12	$\frac{1}{2}$	10	9566	3516 3562 3558	Black enamel Black oxidized copper Streaked oxidized copper	7
6	12	$\frac{1}{2}$	13261	9567	3545 3563 3559	Black enamel Black oxidized copper Streaked oxidized copper	7
6	12	$\frac{1}{2}$	9	9567	13564 13565 13567	Black enamel Black oxidized copper Streaked oxidized copper	7

Lamp Cat. No. 9549
Casing Cat. No. 3545

Lamp Cat. No. 9549

† Does not necessarily refer to material of which casing is made.
† Includes supporting ring with chains, screws and nuts.

NOTE.—The above lamps are furnished with ornamental type casing instead of plain type as furnished heretofore. Plain type casings may be furnished if desired. The casings having "Black Oxidized Copper" finish are made of copper. The casings with "Black Enamel" or "Streaked Oxidized Copper" finish are made of zinc.

ARC LIGHTING

ENCLOSED ARC LAMPS

FOR USE WITH LB SELECTIVE DIFFUSER CEILINGS

FOR DIRECT CURRENT, MULTIPLE, 110-125 VOLT CIRCUITS

Amp.	CARBON DIMENSIONS IN INCHES		Style of Lower Shade	Cat. No. Lamp	Enclosing Globe No.
	Length	Diam.			
5-7	12	$\frac{1}{2}$	36847	9578	3 $\frac{1}{2}$

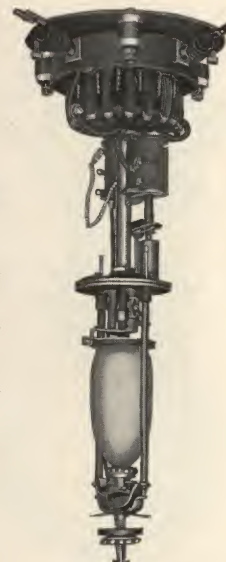
FOR ALTERNATING CURRENT, MULTIPLE, 100-120 VOLT CIRCUITS

7 $\frac{1}{2}$ -8-9	9 $\frac{1}{2}$	$\frac{1}{2}$	36847	9541	3 $\frac{1}{2}$
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No casings are used with these lamps.



Lamp Cat. No. 9578



Lamp Cat. No. 9541

MARINE TYPE

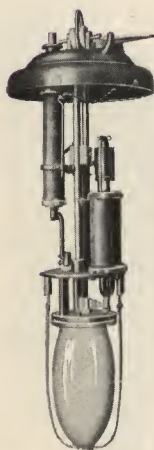
FOR 100 TO 125 VOLT CIRCUITS

Amp.	CARBON DIMENSIONS IN INCHES		No. of Outer Globe	CAT. NO.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
5	12	$\frac{1}{2}$	13	9547	<div><div>3564†</div><div>3565†</div><div>3567†</div></div> <div>Black enamel</div> <div>Black oxidized copper</div> <div>Streaked oxidized copper</div>	<div>46</div> <div>46</div> <div>46</div>	

† Does not necessarily refer to material of which casing is made.

‡ Includes supporting ring with chains, screws and nuts.

NOTE.—The above lamps are equipped with ornamental type casing instead of plain type as furnished heretofore. Plain type casings may be furnished if desired. The casings with "Black Oxidized Copper" finish are made of copper. The casings with "Black Enamel" or "Streaked Oxidized Copper" finish are made of zinc.



Lamp Cat. No. 9547



Lamp Cat. No. 9547
Casing Cat. No. 3564

ARC LIGHTING

DIRECT CURRENT ENCLOSED ARC LAMPS

FOR 6.6 AMPERE SERIES CIRCUITS



Lamp Cat. No. 8584.
Casing Cat. No. 3597



Lamp Cat. No. 8585
Casing Cat. No. 3599



Lamp Cat. No. 8585
Casing Cat. No. 27390

WITH OPEN BASE ENCLOSING GLOBES AND SCREW TOP CASINGS

Amp.	CARBON DIMENSIONS IN INCHES		Style of Outer Globe or Reflector	CAT. NO.		† Casing Finish	Encl. Globe No.
	Length	Diam		Lamp	Casing		
6.6	12	$\frac{1}{2}$	10	8584	3596	Black oxidized copper	3
6.6	12	$\frac{1}{2}$	10	8584	3597	Streaked oxidized copper	3

WITH CLOSED BASE ENCLOSING GLOBES AND BAYONET JOINT CASINGS

6.6	12	$\frac{1}{2}$	13261	8585	3598	Black oxidized copper	46
					3599	Streaked oxidized copper	46
6.6	12	$\frac{1}{2}$	11	8585	27389	Black oxidized copper	46
					27390	Streaked oxidized copper	46

† Does not necessarily refer to the material of which casing is made.

‡ Inclusive of a supporting ring with chain, screws and nuts.

The open base enclosing globe type lamp, Cat. No. 8584, is designed especially for outdoor use and should never be installed for interior work.

In ordering always specify the Cat. Nos. of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector desired.



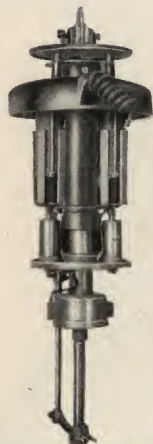
Cat. No. 8584



Cat. No. 8585

ARC LIGHTING

DIRECT CURRENT LUMINOUS ARC LAMPS FOR 100 TO 125 VOLT CIRCUITS



Lamp Cat. No. 9575

Amp.	Outer Globe No.	CAT. NO.			† Casing Finish
		Lower Electrode	Lamp	Casing	
4	5	59422	9575	‡59326	Black oxidized copper
5	5	59422	9576	‡59326	Black oxidized copper

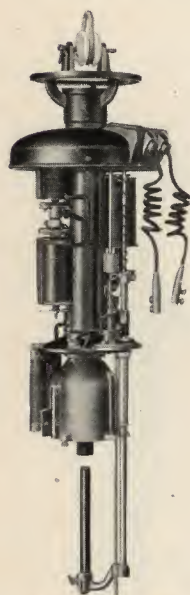
FOR POWER CIRCUITS

TWO IN SERIES ON 220 VOLTS OR FIVE IN SERIES ON 550 VOLTS

4	5	59422	60045	‡59326	Black oxidized copper
5	5	59422	60046	‡59326	Black oxidized copper

FOR 200 TO 250 VOLT CIRCUITS

3	5	59422	60047	‡59326	Black oxidized copper
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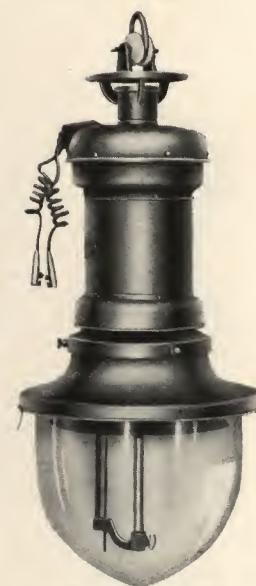
Lamp Cat. No. 9575
Casing Cat. No. 59326

Lamp Cat. No. 9565

FOR DIRECT CURRENT SERIES CIRCUITS

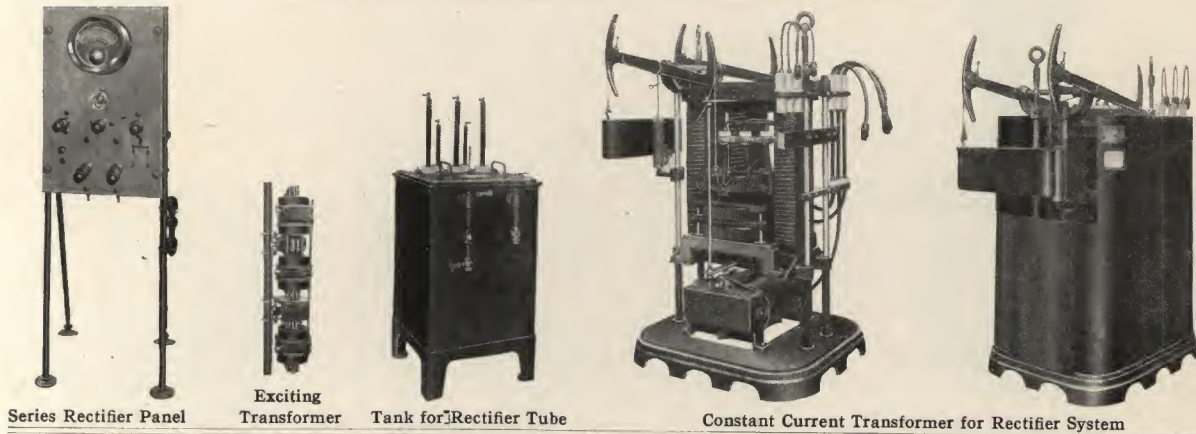
Amp.	Outer Globe No.	CAT. NO.		† Casing Finish
		Lamp	Casing	
4	14	9565	*43266	Black oxidized copper

The casings with Black Oxidized Copper finish are made of copper.
 † Does not necessarily refer to the material of which casing is made.
 ‡ Includes supporting ring, with chain, screws and nuts.
 * Includes canopy, globe holder and ash pan.

Lamp Cat. No. 9565
Casing Cat. No. 43266

ARC LIGHTING

SERIES LUMINOUS ARC RECTIFIER SYSTEM
2200 VOLT PRIMARY, 4 AMPERE D.C.
AIR-COOLED RECTIFIER SETS WITH OIL-COOLED TUBES

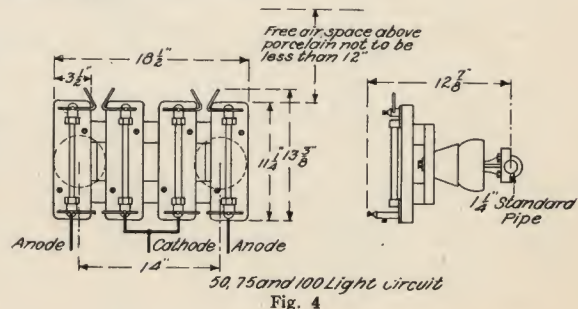
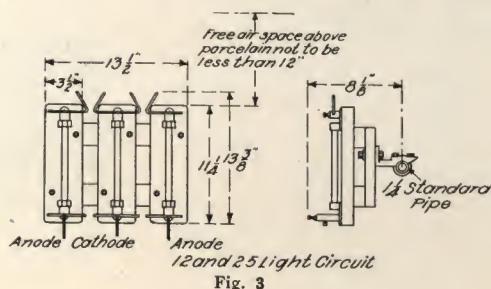


Description	CAT. NO.		Description	CAT. NO.	
	25 Cycles	60 Cycles		25 Cycles	60 Cycles
12 LIGHT SET			50 LIGHT SET		
One Constant Current Transformer with D.C. Reactance	60003	60004	One Constant Current Transformer with D.C. Reactance	60007	60008
One Switchboard Panel	70700	70700	One Switchboard Panel	70702	70702
One Exciting Transformer	60011	60012	One Exciting Transformer	60011	60012
One Tank for Rectifier Tube	60013	60013	One Tank for Rectifier Tube	60014	60014
One Static Discharger	75489	75489	One Static Discharger	75108	75108
One Lightning Arrester	58959	58959	One Lightning Arrester	58961	58961
25 LIGHT SET			100 LIGHT SET		
One Constant Current Transformer with D.C. Reactance	60005	60006	One Constant Current Transformer (two independent 50-light secondary circuits) with D.C. Reactances	60009	60010
One Switchboard Panel	70701	70701	One Switchboard Panel	70704	70704
One Exciting Transformer	60011	60012	Two Exciting Transformers	60011	60012
One Tank for Rectifier Tube	60014	60014	One Double Tank for Rectifier Tube	60428	60428
One Static Discharger	75490	75490	One Static Discharger	75493	75493
One Lightning Arrester	58960	58960	Two Lightning Arresters	58961	58961
D.C. LUMINOUS ARC LAMP			SERIES RECTIFIER TUBES		
Series Luminous Arc Lamp	9565		Four Ampere Tube		40525

RESISTANCE AND SETTING OF GAPS FOR STATIC DISCHARGERS

DISCHARGER		RESISTANCE		SETTING	
Cat. No.	Capacity Lights	No.	Cat. No.	Horn Gap	Spark Gap
75489	12	2	60928	in.	3 in.
75490	25	2	46620	in.	1 in.
75108	50	4	60928	in.	2 in.
75493*	100	8	60928	in.	2 in.

* 100 light equipments use two tubes and therefore require two sets of dischargers. Cat. No. 75493 includes both sets.



ARC LIGHTING

ALTERNATING CURRENT ENCLOSED ARC LAMPS
FOR SERIES CIRCUITS

CLOSED BASE TYPE



Lamp Cat. No. 3786
Casing Cat. No. 3545
Reflector Cat. No. 23979

Amps	CARBON DIMENSIONS IN IN.		Style of Outer Globe or Reflector	Cycles	CAT. NO.		† Casing Finish	En-closing Globe No.
	Lgth	Dia.			Lamp	Cas-ing		
6.6	12	½	{ 8 Outer and 23979 Reflector	60	3786	3545	Black enamel	39
7.5				60	3787			
6.6				60/125	8447			
7.5	12	½	{ 8 Outer and 23979 Reflector	60/125	8449	3563	Black oxidized copper	39

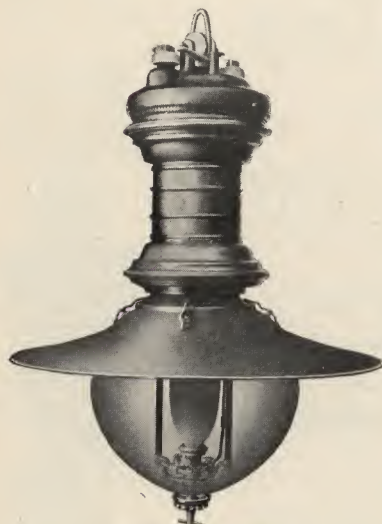
† Does not necessarily refer to the material of which casing is made. In ordering always specify the Cat. Nos. of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required. NOTE.—The above lamps are equipped with ornamental type casings instead of plain type casings, as furnished heretofore. Plain type casings may be obtained if desired.

Approximate shipping weight of lamp with casing is 60 lbs.



Lamp Cat. No. 3786

OPEN BASE TYPE



Lamp Cat. No. 8587
Casing Cat. No. 3516
Reflector Cat. No. 2856

Amps	CARBON DIMENSIONS IN IN.		Style of Outer Globe or Reflector	Cycles	CAT. NO.		† Casing Finish	En-closing Globe No.
	Lgth	Dia.			Lamp	Cas-ing		
6.6	12	½	{ 1 Outer and 2856 Reflector	60	8587	3516	Black enamel	7
7.5				60	8588			
6.6				60/125	8589			
7.5	12	½	{ 1 Outer and 2856 Reflector	60/125	9059	3562	Black oxidized copper	7

† Does not necessarily refer to the material of which casing is made. In ordering always specify the Cat. Nos. of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required. Approximate shipping weight of lamp with casing is 65 lbs.



Lamp Cat. No. 8587

LIGHTNING ARRESTERS, CHOKE COILS AND LIGHTNING ARRESTER BOARDS
FOR SERIES ALTERNATING CURRENT SYSTEMS

LIGHTNING ARRESTERS			CHOKE COILS		COMPLETE LIGHTNING ARRESTER BOARDS (With Arresters, Choke Coils and Marble Base)		
Cat. No.	No. Re-quired	Rating of Transformers	Volts	Amp.	Cat. No. of Lightning Arrester	No. of Board Re-quired	Rating of Transformer
47558	1	25 light	2500/3600	10	47558	1	25 light
47559	1	35 light	3600/5700	10	47559	1	35 light
47560	1	50 light single circuit	5700/8500	10	47560	1	50 light single circuit
47561	1	75 light single circuit	8500/12500	10	47561	1	75 light single circuit
47562	1	100 light single circuit			47562	1	100 light single circuit
47577	2	100 light multiple circuit			47577	2	100 light multiple circuit



Horn Lightning Arrester

ARC LIGHTING

AIR COOLED CONSTANT CURRENT TRANSFORMERS
FOR OPERATING GENERAL ELECTRIC SERIES ALTERNATING CURRENT LAMPS
WITH TAPS FOR APPROXIMATELY FULL LOAD POWER FACTOR AT PARTIAL LOADS



**50-Light Air-Cooled Constant
Current Transformer**

Cat. No.	Secondary K.V.A.	Capacity in Lamps	Amps.	Primary Volts	Taps for Full Load Power Factor	Approx. Shipping Wgt. in Lb.
29315	15	25	6.6	1100	For 15 and 20 lamps	2000
29316	15	25	6.6	2200		
29317	30	50	6.6	1100		
29318	30	50	6.6	2200	For 30, 35, 40 and 45 lamps	2900
29319	62	100	6.6	1100		
29320	62	100	6.6	2200		
29321	17.5	25	7.5	1100	For 15 and 20 lamps	2000
29322	17.5	25	7.5	2200		
29323	35	50	7.5	1100		
29324	35	50	7.5	2200	For 30, 35, 40 and 45 lamps	2900
29325	71	100	7.5	1100		
29326	71	100	7.5	2200		

60 CYCLES

WITHOUT TAPS

60-125 CYCLES

Cat. No.	Second- ary K.V.A.	Capa- city in Lamps	Amps.	Primary Volts	Ap- prox. Ship- ping Weight in Lb.	Cat. No.	Second- ary K.V.A.	Capa- city in Lamps	Amps.	Primary Volts	Ap- prox. Ship- ping Weight in Lb.
27192	4	6	6.6	1100	600	27186	18	25	6.6	1100	2000
27193	4	6	6.6	2200		27187	18	25	6.6	2200	
27196	7.75	12	6.6	1100		26977	25	35	6.6	1100	2200
27197	7.75	12	6.6	2200	900	26978	25	35	6.6	2200	
27204	21	35	6.6	1100		27188	35	50	6.6	1100	
27205	21	35	6.6	2200	2200	27189	35	50	6.6	2200	2900
27178	46.5	75	6.6	1100/2200		27190	55	75	6.6	1100/2200	
27194	4.5	6	7.5	1100		27191	75	100	6.6	1100/2200	
27195	4.5	6	7.5	2200	600	29625	21	25	7.5	1100	2000
27198	8.8	12	7.5	1100		29626	21	25	7.5	2200	
27199	8.8	12	7.5	2200		29627	29	35	7.5	1100	
27206	24.5	35	7.5	1100	900	29628	29	35	7.5	2200	2200
27207	24.5	35	7.5	2200		29629	41	50	7.5	1100	
27184	52.5	75	7.5	1100/2200		29630	41	50	7.5	2200	
					4160	29631	63	75	7.5	1100/2200	4160
						29632	86	100	7.5	1100/2200	
											4815

PANEL BOARDS

FOR CONTROLLING SERIES ALTERNATING CURRENT STREET LIGHTING SYSTEMS

The 25, 35 and 50 light (single circuit secondary) panel boards measure 28 in. x 16 in. x 1½ in.

The 50 (multi circuit secondary), 75 and 100 light panels measure 28 in. x 20 in. x 1½ in.

The panels are of blue Vermont marble and are 64 in. high. If desired, a sub-base 16 in. high, with wattmeter, can be supplied.

STANDARD CONSTANT CURRENT TRANSFORMER PANELS (Front and Rear Views)

PANELS 1150-2300 VOLTS

Capacity of Trans- former in Lamps	AMPERE CAPACITY		CAT. NO.		Approx. Shipping Weight in Lb.
	1150 Volts	2300 Volts	1150 Volts	2300 Volts	
25			44685	44685	400
35-50			44686	44686	400
75-100			44687*	44687*	450
12 (Testing)			44688	44688	150

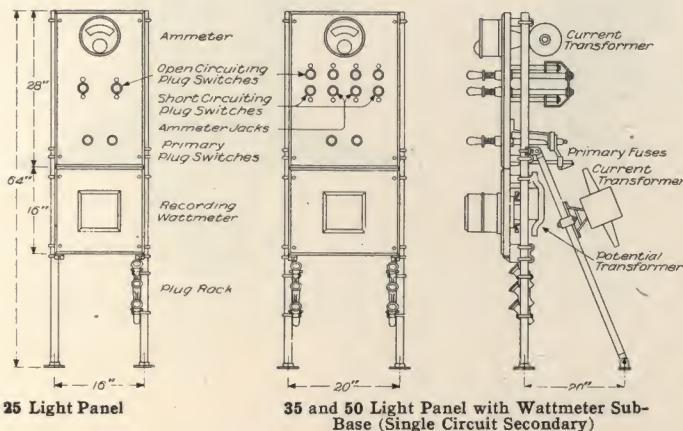
FUSES FOR PANELS

	15	8	51293	51290	
25	15	8	51293	51290	
35	25	12	51295	51292	
50	30	15	51296	51293	
75	50	25	51298	51295	
100	75	30	23125	51296	
12	8	4	51290	51287	

SUB-BASES WITH WATTMETERS

	20	10	44689	44694	
25	20	10	44689	44694	
35	30	15	44690	44695	
50	40	20	44691	44696	
75	60	30	44692	44697	
100	80	40	44693	44698	

* Multi circuit secondary.



25 Light Panel

**35 and 50 Light Panel with Wattmeter Sub-
Base (Single Circuit Secondary)**

ARC LIGHTING

G. I. TYPE K ENCLOSED ARC LAMPS

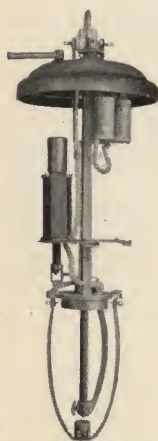


The complete lamps listed in this section (with the exception of the L 14) are designed to take the same casing and the same combination of glass ware and reflectors. The external views given will therefore suffice where the general appearance only is in question.

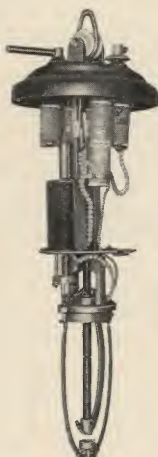
GENERAL DATA

LAMPS				CARBONS			GLOBE NO.		TRIM
Type	Term. Volt	Arc Volt	Amp.	Dimensions in Inches		Life in Hours	Inner	Outer	Number
				* Upper	* Lower				
K-31	100 to 125	78 to 80	5	$\frac{1}{2}$ x 12 S	$\frac{1}{2}$ x 6 S	175 to 200	19	43	19 BK
K-41	100 to 125	78 to 80	3 to 6	$\frac{1}{2}$ x 12 S	$\frac{1}{2}$ x 6 S	175 to 200	19	43	19 BK
K-22	200 to 250	145 to 150	3	$\frac{1}{2}$ x 12 S	$\frac{1}{2}$ x 6 S	175 to 200	19	43	19 ABK
K-23	200 to 250	78 to 80	5	$\frac{1}{2}$ x 12 S	$\frac{1}{2}$ x 6 S	175 to 200	19	43	19 ABK
L-14	100 to 125	78 to 80	3 to 6	$1\frac{1}{8}$ x 7 $\frac{1}{2}$ S	$1\frac{1}{8}$ x 3 $\frac{1}{2}$ S	70 to 80	17	45	17 BL
K-16	100 to 120	72 to 75	6	$\frac{1}{2}$ x 12 C	$\frac{1}{2}$ x 6 S	100 to 130	19	43	19 BK
K-18	Approx. 80	72 to 75	4 to 7.5	$\frac{1}{2}$ x 12 C	$\frac{1}{2}$ x 6 S	100 to 125	19	43	19 ABK
K-19	<div>200 to 250 400 to 475 540 to 600</div>	72 to 75	6	$\frac{1}{2}$ x 12 C	$\frac{1}{2}$ x 6 S	110 to 125	19	43	19 BK

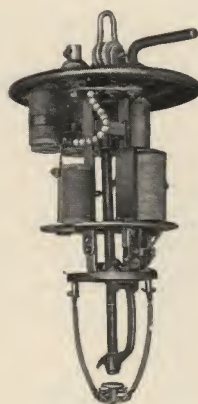
* S = Solid C = Cored.



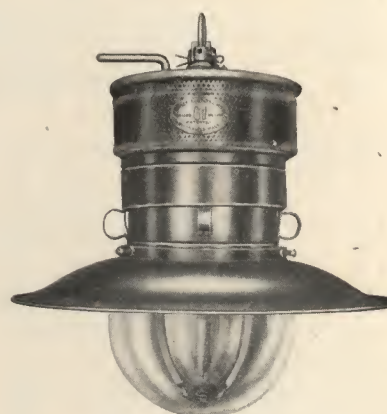
Type K 31 110 Volts
(5 Amps)
D.C. Multiple



Type K 41 110 Volts
D.C. Multiple
Arranged for correct
adjustment from
3 to 6 Amps.



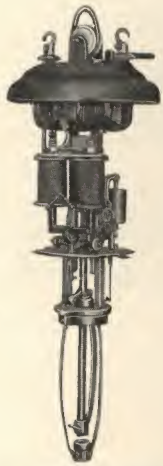
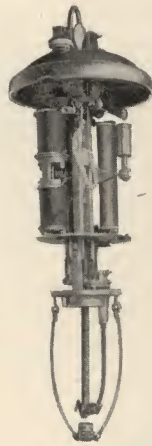
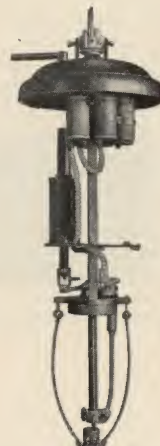
Type L 14



Type L 14 D.C. Multiple 110 Volts
Arranged for current adjustment from
3 to 6 Amps.

ARC LIGHTING

G. I. TYPE K ENCLOSED ARC LAMPS

Type K16 110 Volts
A.C. MultipleType K18
A.C. SeriesType K19 Power
Circuit
A.C. MultipleType K22, 220 Volts
D.C. MultipleType K23 Power
Circuit
D.C. Multiple Series

G. I. FORMS 3 AND 4 FLAME ARC LAMPS

DIRECT CURRENT

TWO IN SERIES ON 100 TO 125 VOLTS

12 AMPERES

12 HOUR LAMP

17 HOUR LAMP

CAT. NO.		Form	Casing Ma- terial	CAT. NO.		Form	Casing Ma- terial
Lamp	Casing			Lamp	Casing		
76788	76789 76790	3	†Copper ||Steel	76334 76336	76335 76335	3 ‡4	||Steel Steel

EXTERNAL RESISTANCE

Used only for lamps operated singly on 100 to 125 volts.

Cat. No. Res.	Cat. No. Casing	Casing Material
75081	75082 75083	†Copper ||Steel

ALTERNATING CURRENT

100 TO 125 VOLTS—12 AMPERES 50 TO

140 CYCLES

12 HOUR LAMP

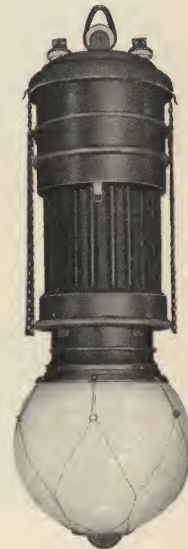
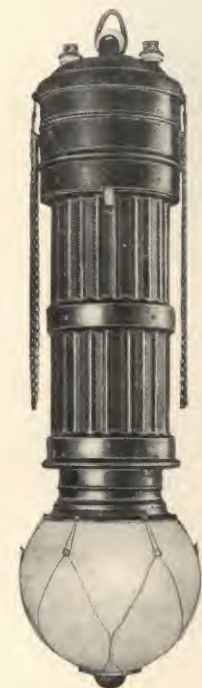
TWO IN SERIES FOR LAMPS OPERATED
SINGLY ON 100 TO 125 VOLTS

* EXTERNAL RESISTANCE

CAT. NO.		Form	Casing Material	CAT. NO.		Casing Material
Lamp	Casing			Reactance	Casing	
75084	76789 76790	3	† Copper || Steel	75085	75082 75083	† Copper || Steel

17 HOUR LAMP

76337 76338	76335 76335	3 ‡4	Steel Steel	75085 75085	75083 75083	Steel Steel
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* This must always be used with two lamps in series or with one lamp operated singly.

† These lamps are also made up with self-contained cut-out resistance or reactance. Specially designed for use in series on other than 110 volt circuits.

‡ Antique Copper Finish.

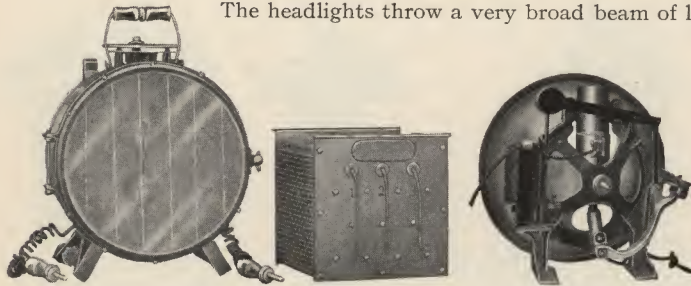
|| Black Enamel Finish.

ARC LIGHTING

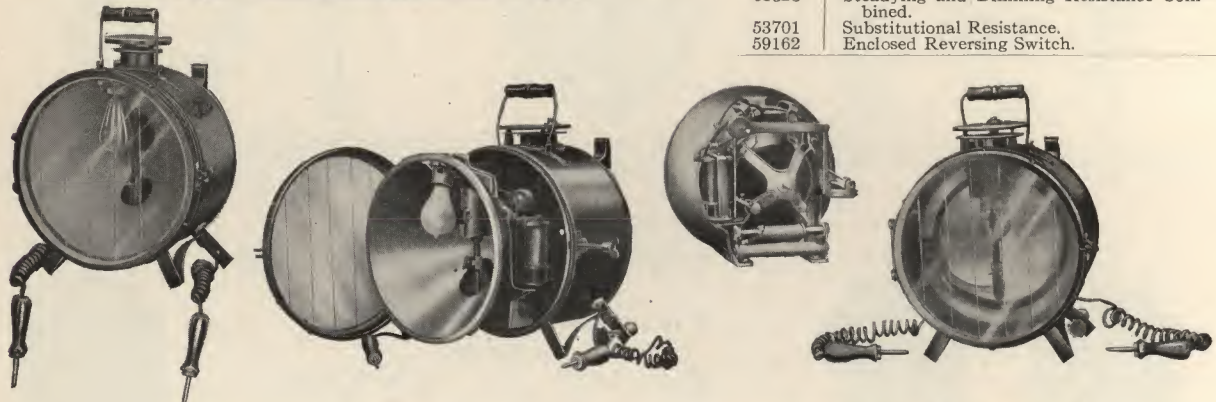
LUMINOUS ARC HEADLIGHTS

FOR DIRECT CURRENT INTERURBAN RAILWAY SERVICE

The headlights throw a very broad beam of light.



Dimmed Light obtained by Reversing Current through Arc

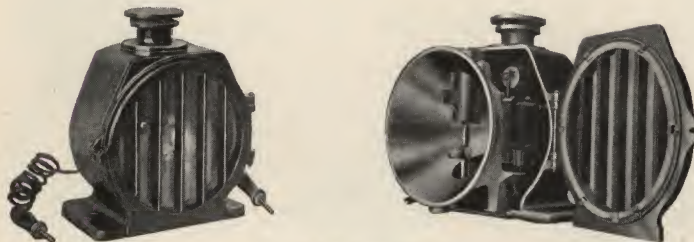


Dim Light obtained by Incandescent Lamp

Dim Light obtained by Reversing Current through Arc

MINE HEAD LIGHT

DIRECT CURRENT RAILWAY SERVICE



Form E Mine Headlight

Cat. No.	Description
60137	Luminous Arc Mine Headlight with Plug, Cable and Steadying Resistance.
60138	Luminous Arc Mine Headlight with Plug and Cable, without Steadying Resistance.
61328	Steadying Resistance for 550 Volts.

This headlight has not the reversing feature. It throws a very broad beam of light.

TUNGSTEN ECONOMY DIFFUSERS



26 in. Tungsten Economy Diffuser
for Store Lighting

Cat. No.	DESCRIPTION				Cat. No.	DESCRIPTION			
	Diam. of Dif-fuser in In.	No. of Lamps	Sus-pension	Finish of Casing, Canopies, etc.		Diam. of Dif-fuser in In.	No. of Lamps	Sus-pension	Finish of Casing, Canopies, etc.
60285	26	6	Link	Streaked Ox. Copper	60287	39	6	Hook	Streaked Ox. Copper
60569	26	6	Link	Streaked Ox. Silver	60571	39	6	Hook	Streaked Ox. Silver
60286	26	6	Hook	Streaked Ox. Copper	60290	39	5	Hook	Streaked Ox. Copper
60570	26	6	Hook	Streaked Ox. Silver	60574	39	5	Hook	Streaked Ox. Silver
60288	26	5	Link	Streaked Ox. Copper	60293	..	..	Canopy and Link	Streaked Ox. Copper
60572	26	5	Link	Streaked Ox. Silver	60575	..	..	..	Streaked Ox. Silver
60289	26	5	Hook	Streaked Ox. Copper	60576	..	6	..	H and H 5 point, 4 way snap switch
60573	26	5	Hook	Streaked Ox. Silver					

ARC LIGHTING

ARC LAMPS FOR BLUEPRINTING



Cylindrical Blueprinting Frame

An extremely useful application of the arc lamp is in the making of blueprints, such as are used in factories, machine shops, etc., as it avoids the delays occasioned by lack of sufficient natural light during cloudy days and in the evenings. In the accompanying illustration will be seen a view of a four arc frame, specially designed for this class of work. A curved glass plate forms the side of the frame against which the tracings and blueprint paper are placed. Canvas curtains, raised and lowered by aid of a foot lever, hold the tracing and paper firmly in position against the glass insuring a good contact between the tracing and the blueprinting paper. The electric current is automatically thrown on to, or cut off from, the lamps by the operation of the foot lever, thereby avoiding any waste. Portability and lightness of construction, without the sacrifice of strength and durability, are obtained by building the frame of angle iron and sheet steel.

Lamps can be furnished for either direct or alternating current service, and as they are properly adjusted and tested before leaving the factory, no attention will be necessary with the exception of cleaning the globes and trimming.

A large number of these outfits are utilized by the General Electric Company in the Blueprinting Department which turns out about 100,000 blueprints per month.

ARC LAMP HANGERS, CEILING BOARDS AND CUT-OUTS



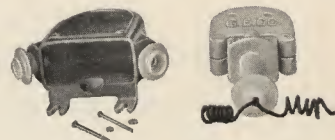
Cat. No.	Description
42185	Series Arc Lamp Hanger with Absolute Cut-out and Suspension Insulator.
60929	Wall Type Absolute Cut-out for use with Series Arc Lamps.
75087	Hanger and Switch for Mill Type Arc Lamps.
2865	Arc Lamp Ceiling Board, for Edison fuse plugs.
44307	Arc Lamp Ceiling Board, for Edison fuse plugs—for cleat, concealed or moulding work.
36850	Arc Lamp Ceiling Board, for Edison fuse plugs: includes ceiling switch Cat. No. 47092.
36844	Arc Lamp Ceiling Board, for N.E.C.S. Enclosed fuses.



Cat. No. 42185



Cat. No. 75087



Cat. No. 60929



Cat. No. 36850



Cat. No. 36844



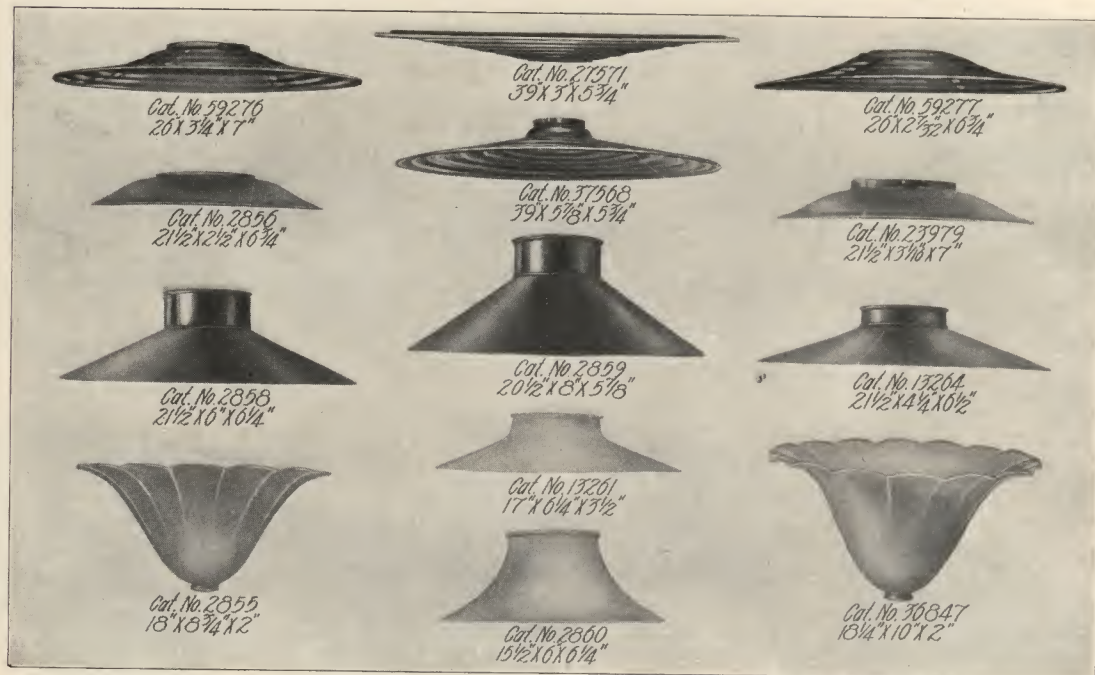
Cat. No. 2865



Cat. No. 44307

ARC LIGHTING

REFLECTORS AND DIFFUSERS FOR ENCLOSED ARC LAMPS



REFLECTORS

Cat. No.	Description
13261	Flat Opal Reflector for use on single globe lamps
2860	Deep Opal Reflector; interchangeable with Cat. No. 13261.
13264	Metal Reflector; interchangeable with Cat. Nos. 13261 and 2860.
2856	Metal Reflector for double globe lamps.
23979	Metal Reflector for use on single globe lamps with or without outer globe.
2858	Mirror Reflector (6 in. deep).
2859	Mirror Reflector (8 in. deep).

CONCENTRIC DIFFUSERS, SHADES, ETC.

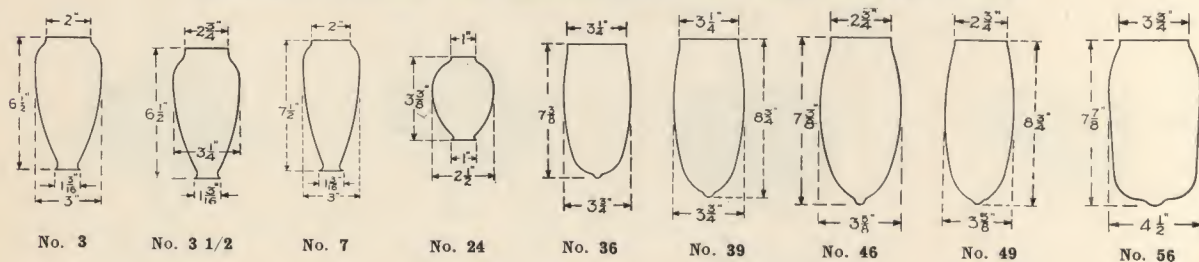
Cat. No.	Description
27571	Concentric Light Diffuser (steel) suspended from single globe casings. Takes shade Cat. No. 2855.
37568	Inverted Concentric Diffuser (steel) suspended from single globe casings. Takes open or closed base outer globe.
59276	Inverted Concentric Diffuser for single globe casing lamps and the Form 2 multiple luminous lamp.
59277	Inverted concentric diffuser for double globe casing.
2855	Light Opal Shade 8 1/2 in. deep, for concentric diffusers. See also Cat. No. 36847.
36847	Light Opal Shade 10 in. deep, for use with ceiling type of lamp. Should be used with 12 in. upper carbon A.C. multiple lamps equipped with concentric diffusers.
37567	Shade suspension complete for adapting concentric light diffuser combination to single globe, closed base enclosing globe lamps.

HEAT RESISTING ENCLOSING GLOBES

Enclosing globes furnished with General Electric lamps are blown from glass having special heat resisting qualities. This glass will not soften with the intense heat of the arc, and consequently the carbon particles which may be projected against the globes do not adhere or become embedded as they do with other globes.

Globes are furnished in dense opal, light opal, or clear glass, as desired. For interior illumination the light opal globe is generally adopted, as it absorbs some of the superfluous violet rays of the light without seriously decreasing the illuminating power. When a very even distribution of light is essential the dense opal globe should be used. For outdoor lighting both the clear and light opal globes are employed, although the light opal globes are preferable on account of the superior light distribution secured.

ENCLOSING GLOBES FOR GENERAL ELECTRIC ENCLOSED ARC LAMPS

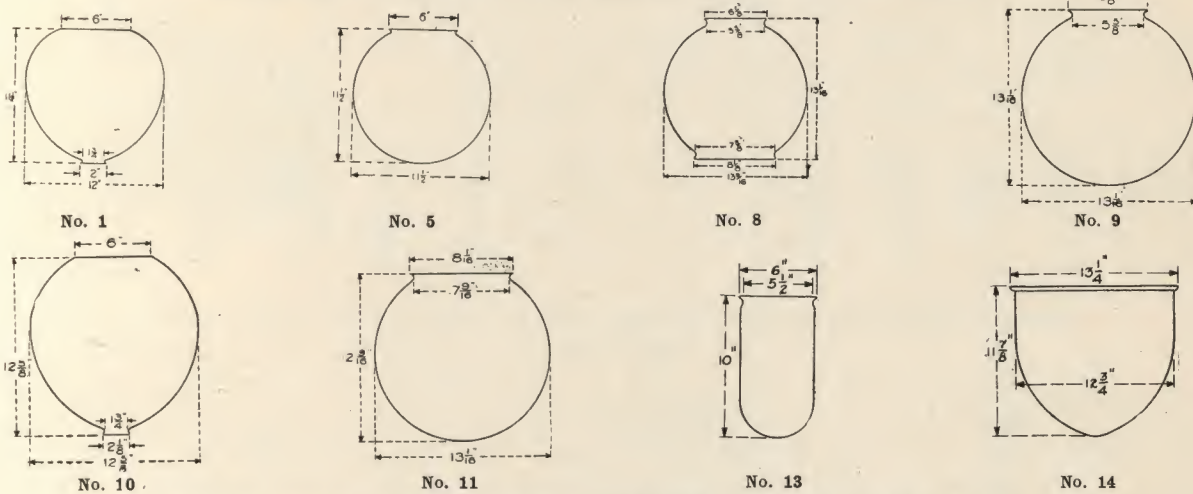


ARC LIGHTING

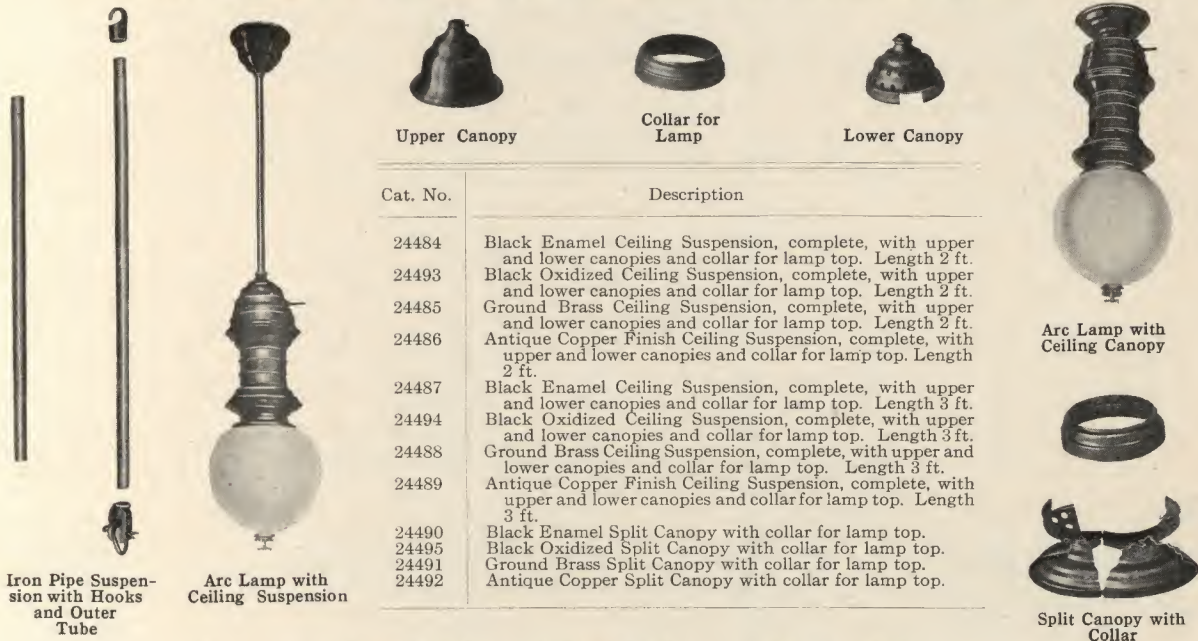
OUTER GLOBES

Outer globes can also be furnished in dense opal, light opal, or clear glass, according to requirements.

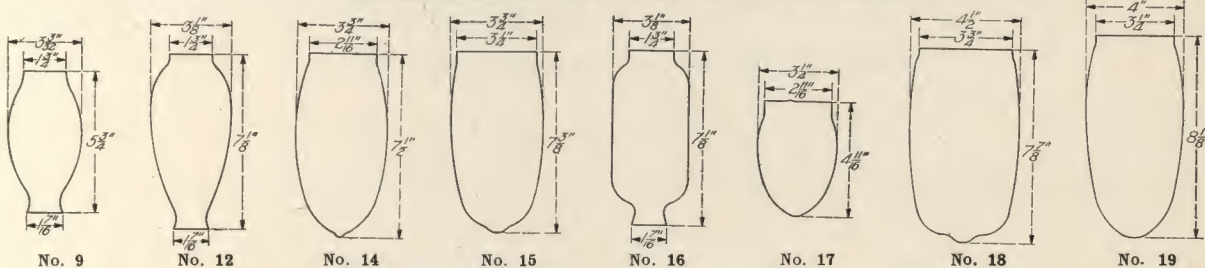
OUTER GLOBES FOR GENERAL ELECTRIC ENCLOSED ARC LAMPS



COMPLETE CEILING CANOPIES AND SUSPENSIONS, AND SEPARATE PARTS



ENCLOSING GLOBES FOR G. I. ARC LAMPS



ARC LIGHTING

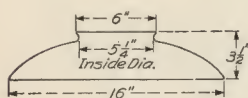
ENCLOSING GLOBES FOR G. I. ARC LAMPS—Concluded

GENERAL DIMENSIONS

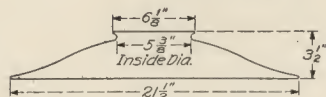
Designation of Globes	Postoria Listed No. of Globe	LIMITS OF DIMENSIONS (IN INCHES) FOR ENCLOSING GLOBES											
		Top Diam.			Bottom Diam.			Length			Globe Diam.		
		Nominal	Max. Outside	Min. Inside	Nominal	Max. Outside	Min. Outside	Nominal	Max.	Min.	Nominal	Max. Outside	Min. Outside
G.I. No. 9	56	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{7}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{1}{8}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	3
G.I. No. 12	164	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{7}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	3 $\frac{1}{8}$
G.I. No. 14	123	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	..	..	..	7 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	3 $\frac{1}{8}$
G.I. No. 15	112	3 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	..	..	..	7 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	3 $\frac{1}{8}$
G.I. No. 16	133	1 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{7}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	3 $\frac{1}{8}$
G.I. No. 17	215	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	..	..	..	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	3 $\frac{3}{4}$	3 $\frac{3}{4}$	3 $\frac{1}{8}$
G.I. No. 18	108	3 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	..	..	..	7 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{8}$
G.I. No. 19	94	3 $\frac{1}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	..	..	..	8 $\frac{1}{8}$	8 $\frac{1}{8}$	8 $\frac{1}{8}$	4	4 $\frac{1}{8}$	4

REFLECTORS AND OUTER GLOBES FOR G. I. ENCLOSED ARC LAMPS

REFLECTORS



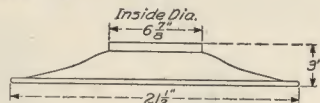
G.I. No. 38



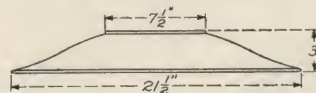
G.I. No. 39



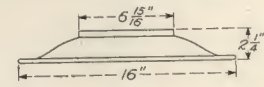
G.I. No. 1000



G.I. Nos. 1001 and 1002

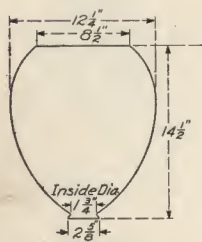


G.I. Nos. 1003 and 1004

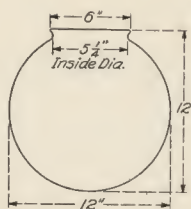


G.I. Nos. 1005 and 1006

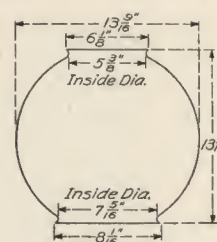
OUTER GLOBES



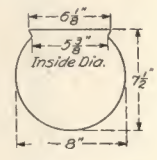
G.I. No. 4



G.I. No. 43



G.I. No. 44



G.I. No. 45

REFLECTORS FOR G. I. ENCLOSED ARC LAMPS

G.I. No.	Description	G.I. No.	Description
* 38	Opal Glass Reflector, 16 in. dia., 3 1/2 in. deep.	1002	Fire Enamelled Metal Reflector for double globe lamp, "L" type.
* 39	Opal Glass Reflector, 21 1/2 in. dia., 3 1/2 in. deep.	1004	Fire Enamelled Metal Reflector for double globe "K" type lamp.
1000	Plain Metal Reflector for type "O" lamp only, 26 in. dia.		
1001	Painted Metal Reflector for type "L" lamp only, 21 1/2 in. dia.		
1003	Painted Metal Reflector for type "K" lamp only, 21 1/2 in. dia.		
1005	Painted Metal Reflector for type "L-14" lamp only, 16 in. dia.		
1006	Fire Enamelled Metal Reflector "L-14" lamp only, 16 in. dia.		

* The Glass Reflectors Cat. No. 38 and Cat. No. 39 listed above are interchangeable on either the "L" or "K" lamps and are used only on single globe lamps.

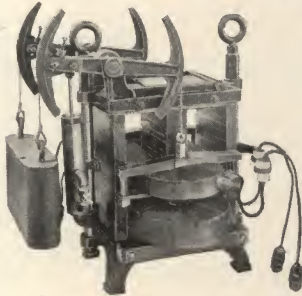
OUTER GLOBES FOR G. I. ENCLOSED ARC LAMPS

Globe No.	Description	Globe No.	Description
G.I. 4	Open Base Enclosing Globe for type "O" lamp only.	G.I. 44	Open Base Enclosing Globe for either type "L" or type "K" lamp, except L-14 or short type lamp.
G.I. 43	Closed Base Enclosing Globe for either type "L" or type "K" lamp, except L-14 or short type lamp.	G.I. 45	Closed Base Enclosing Globe for L-14 or short type lamps only.

NOTE.—In ordering globes or reflectors from this page, the numbers must be prefaced with the letters "G.I."

G.E. SERIES INCANDESCENT SYSTEM

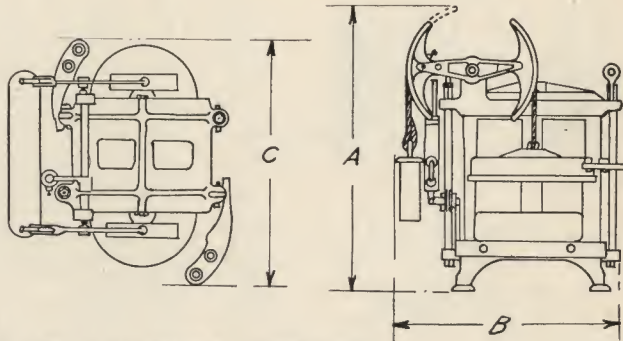
AIR-COOLED CONSTANT CURRENT TRANSFORMERS FOR SERIES INCANDESCENT LIGHTING FOR OPERATION ON 60 TO 125 CYCLE CIRCUITS



†Kw. Capacity	Primary Volts	CAT. NO.		†Kw. Capacity	Primary Volts	CAT. NO.	
		Secondary Amp. 4	Secondary Amp. 5.5			Secondary Amp. 4	Secondary Amp. 5.5
4	1100	49247	49249	16	2200	49256	49258
4	2200	49248	49250	22	1100	49259	49261
8	1100	49251	49253	22	2200	49260	49262
8	2200	49252	49254	32	1100	49263	49265
16	1100	49255	49257	32	2200	49264	49266

DIMENSIONS AND WEIGHTS

†Kw. Capacity	RATING		Approx. Shipping Weight	A	B	C
	Cycles	Type				
4	60-125	RB	648	30 1/2"	26 1/2"	18 1/2"
8	60-125	RB	875	34 1/2"	28 1/2"	18 1/2"
16	60-125	RB	1628	39 1/2"	37 1/2"	26"
22	60-125	RB	1814	41 1/2"	37 1/2"	26"
32	60-125	RB	2190	41 1/2"	33 1/2"	30 1/2"



OPERATING DATA ON 60 AND 125 CYCLE CIRCUITS

NO. OF TUNGSTEN 1.25 W.P.C. LAMPS ALLOWING 7.5 PER CENT. LINE LOSS

C.C. TRANS.			60 CYCLES			125 CYCLES		
†Kw. Capacity	Sec. Amps.	No. Circuits	32 C.P.	40 C.P.	60 C.P.	32 C.P.	40 C.P.	60 C.P.
4	4	1	76	60	40	64	51	33
4	5.5	1	76	60	40	64	51	33
8	4	1	152	121	81	123	98	66
8	5.5	1	152	121	81	123	98	66
16	4	1	315	252	167	267	213	143
16	5.5	1	315	252	167	267	213	143
22	4	1	428	341	228	364	292	194
22	5.5	1	428	341	228	364	292	194
32	4	2	618	500	330	570	456	303
32	5.5	1	618	500	330	570	456	303

PANELS FOR CONTROLLING 1, 2 OR 3 CONSTANT CURRENT TRANSFORMERS WITH 1100 OR 2200 VOLT PRIMARY WINDING

SUB-BASE WITH WATT-METERS FOR PANELS, CONTROLLING ONE TRANSFORMER



†Kw. Capacity	Sec. Amp.	CAT. NO.			†Kw. Capacity	Sec. Amp.	CAT. NO.			†Kw. Capacity	1100 VOLTS		2200 VOLTS	
		Panels for One Transformer	Panels for Two Transformers	Panels for Three Transformers			Panels for One Transformer	Panels for Two Transformers	Panels for Three Transformers		Amp.	Cat. No.	Amp.	Cat. No.
4	4	44621	44625	44629	16	5.5	44622	44626	44630	4	5	44633	5	44639
4	5.5	44621	44625	44629	22	4	44622	44626	44630	8	10	44634	5	44640
8	4	44621	44625	44629	22	5.5	44622	44626	44630	16	20	44635	10	44641
8	5.5	44621	44625	44629	32	5.5	44622	44626	44630	22	30	44636	15	44642
16	4	44622	44626	44630	*32	4	44632	44626	44630	32	40	44636	20	44642
										32	40	†44638	20	†44644

* Panel for one transformer with two secondary circuits.

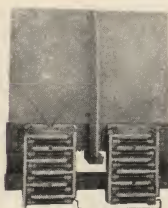
† Maximum incandescent lamp load.

Four extra fuses are included in above prices.

† For use with Panel Cat. No. 44632.

G.E. SERIES INCANDESCENT SYSTEM

LIGHTNING ARRESTERS FOR USE ON SECONDARIES OF CONSTANT CURRENT TRANSFORMERS FOR SERIES INCANDESCENT SYSTEM, STATION TYPE

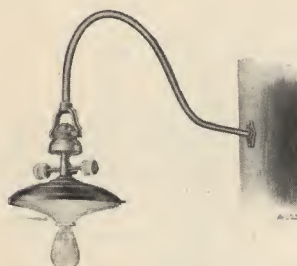


Cat. No.	† Kw. Capacity	Amp. Secondary	Cat. No.	† Kw. Capacity	Amp. Secondary	Cat. No.	† Kw. Capacity	Amp. Secondary
47563	4	4	47559	16	5.5	47561	22	4
47563	4	5.5	47560	16	4	47561	32	5.5
47563	8	5.5	47560	22	5.5	47559	*32	4
47559	8	4						

* In case of multi-circuit transformers one arrester is necessary for each circuit.

† Maximum incandescent lamp load.

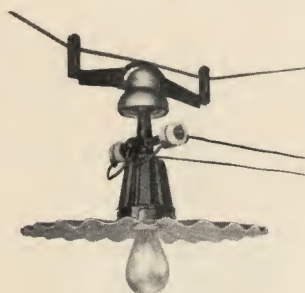
*BRACKETS FOR STREET SERIES INCANDESCENT LIGHTING



Cat. No. 36552



Cat. No. 46212



Cat. No. 49055

Cat. No.	Description
11459	† Lamp bracket complete with sheet metal hood and deflector and flat pole plate for use with series socket and receptacle, Cat. No. 25708.
29185	† Lamp bracket complete with sheet metal hood and deflector and flat pole plate for use with series socket and receptacle, Cat. No. 29170.
36552	† Lamp bracket complete with copper hood and deflector and flat pole plate for use with series socket and receptacle, Cat. No. 25708.
36553	† Lamp bracket complete with copper hood and deflector and flat pole plate for use with series socket and receptacle, Cat. No. 29170.
34928	Center span suspension fixture, complete with sheet metal hood and deflector for use with series socket and receptacle, Cat. No. 25708.
34929	Center span suspension fixture complete with sheet metal hood and deflector for use with series socket and receptacle, Cat. No. 29170.
36555	Center span suspension fixture complete with copper hood and deflector for use with series socket and receptacle, Cat. No. 25708.
36556	Center span suspension fixture complete with copper hood and deflector, for use with series socket and receptacle, Cat. No. 29170.
34930	Insulator holder for use with the above center span suspension fixtures.
36549	Copper hood and deflector for use with brackets for Cat. No. 25708 series socket and receptacle.
36550	Copper hood and deflector for use with brackets for Cat. No. 29170 series socket and receptacle.
46212	Lamp bracket complete with radial wave reflector and flat pole plate for use with series sockets and receptacles, Cat. Nos. 25708 and 29170.
46213	Lamp bracket without ornamentation complete with radial wave reflector and flat pole plate for use with series sockets and receptacles, Cat. Nos. 25708 and 29170.
49055	Center span suspension fixture complete with radial wave reflector for use with series sockets and receptacles, Cat. Nos. 25708 and 29170.

* Approximate shipping weight, complete bracket, 17 lbs.

† Does not include socket and receptacle or lamp.

25708	Porcelain series socket and receptacle, complete, with iron yoke, for large Edison screw base lamps.
25711	Porcelain series socket only.
29170	Porcelain socket and receptacle, complete, with iron yoke, for standard Edison screw base lamps.
25720	Porcelain series socket only.

RECEPTACLES

Cat. No.	Description
25712	Porcelain receptacle with clips and iron yoke, Cat. No. 25714.
25713	Porcelain receptacle with clips only.
29171	Porcelain receptacle with clips and iron yoke, Cat. No. 29172.
25713	Porcelain receptacle with clips only

YOKES

Cat. No.	Description
29172	Iron yoke ($\frac{3}{4}$ "-18 thread) with two screws, Cat. No. 10252.
25714	Iron yoke ($\frac{3}{4}$ "-18 thread) with two screws, Cat. No. 10252.



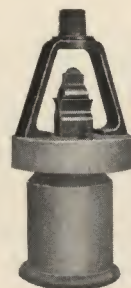
Receptacle



Socket



Film Cut-out

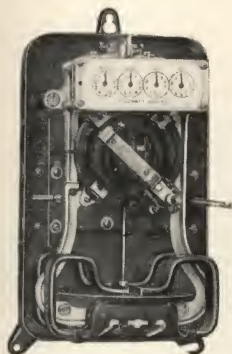


Porcelain Series Socket

SERIES SOCKET WITH FILM CUT-OUT

Cat. No.	Description
25708	Porcelain series socket and receptacle complete, including iron yoke for use with lamps with Edison screw base, $1\frac{1}{2}$ " in diameter.

WATTMETERS

THOMSON DIRECT CURRENT RECORDING WATTMETERS
TYPES C-6 AND C-7 FRONT CONNECTED NO. 3 FINISH

Thomson Recording Wattmeters, Types C-6 and C-7, are made for two-wire and three-wire direct current lighting and motor circuits. The Types C-6 and C-7 meters have extremely high torque, light weight moving element, small commutator, and gravity control brushes and adjustable shunt field coil.

These meters can be furnished with back connections and pressed glass covers. Prices on application.

TYPE C-6 100-120 VOLTS—TWO-WIRE					TYPE C-6 200-240 VOLTS—THREE-WIRE				
Cat. No.	*Lights	Amp.	H.P.	List Price	Cat. No.	*Light	Amp.	H.P.	List Price
37594	10	5		\$31.00	37604	20	5		\$35.00
37595	20	10		33.00	37605	40	10		40.00
37596	30	15		37.00	37606	60	15		47.00
37597	50	25		44.00	37607	100	25		54.00
37598	100	50		58.00	37608	200	50		71.00
37599	150	75		72.00	37609	300	75		88.00
37600	200	100		85.00	37610	400	100		105.00
37601	300	150		110.00	37611	600	150		135.00
37602	600	300		140.00	37612	1200	300		185.00
37603	1200	600		200.00					

TYPE C-6 200-240 VOLTS—TWO-WIRE					TYPE C-7 500-600 VOLTS—TWO-WIRE				
Cat. No.	*Lights	Amp.	H.P.	List Price	Cat. No.	*Light	Amp.	H.P.	List Price
37614	20	5	1½	\$35.00	37624	5	2½		\$45.00
37615	40	10	2	40.00	37625	10	5		52.00
37616	60	15	3½	47.00	37626	15	7½		60.00
37617	100	25	7	54.00	37627	25	15		70.00
37618	200	50	15	68.50	37628	50	30		85.00
37619	300	75	20	83.00	37629	75	50		100.00
37620	400	100	25	97.50	37630	100	60		115.00
37621	600	150	40	125.00	37631	150	100		145.00
37622	1200	300	80	160.00	37632	300	200		190.00
37623	2400	600	160	225.00	37633	600	400		260.00

* Rated on a basis of 50 watts per lamp. Always give normal operating voltage.
Approximate shipping weight, all voltages 5 to 150 Amp. inclusive, 1 in a box 32 lbs., 2 in a box, 65 lbs.;
300 and 600 Amp., 1 in a box, 67 lbs., 2 in a box, 125 lbs.
For further information see the Bulletin on this subject.

TYPE CQ

Type CQ is essentially the Type C-6 wattmeter modified to render it as far as possible free from errors due to magnetic fields. This valuable characteristic is secured by a four-pole field and armature construction.

The appearance and dimensions are practically the same as the type C-6 meter.

110-120 VOLTS, 2-WIRE

200-220 VOLTS, 3-WIRE

200-220 VOLTS, 2-WIRE

500-600 VOLTS, 2-WIRE

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
65275	50	\$71.00	65280	50	\$90.00	65284	50	\$84.00	65289	50	\$102.00
65276	75	85.00	65281	75	110.00	65285	75	103.00	65290	75	120.00
65277	100	100.00	65282	100	135.00	65286	100	121.00	65291	100	140.00
65278	200	140.00	65283	200	185.00	65287	200	162.00	65292	200	185.00
65279	400	190.00				65288	400	210.00	65293	400	240.00

THOMSON DIRECT CURRENT ASTATIC METER TYPE CS
FOR SWITCHBOARD SERVICE

The Type CS meter is an astatic meter especially designed for switchboard use. This meter is made in back connected form only and is enclosed in a rectangular glass case.



The armatures and damping magnets are astatically arranged, thus minimizing the effect of stray fields. The damping magnets are enclosed in a laminated iron shield, thereby

protecting them from the effects of short circuits. The meter is provided with spherical armature and field coils, gravity control brushes and small commutator. The meter has a dull, black finish.

100-120 VOLTS				200-240 VOLTS—TWO-WIRE			
Cat. No.	*Lights	Amp.	List Price	Cat. No.	*Lights	H.P.	List Price
58235	100	50	\$190.00	58246	200	15	\$210.00
58236	150	75	200.00	58247	300	20	220.00
58237	200	100	210.00	58248	400	25	230.00
58238	300	150	220.00	58249	600	40	245.00
58239	400	200	230.00	58250	800	50	255.00
58240	600	300	250.00	58251	1200	80	275.00
58241	800	400	270.00	58252	1600	108	295.00
58242	1200	600	300.00	58253	2400	160	330.00
58243	1600	800	330.00	58254	3200	200	360.00
58244	2400	1200	360.00	58255	4800	320	390.00
58245	3000	1500	390.00	58256	6000	400	420.00

200-240 VOLTS—THREE-WIRE				500-600 VOLTS—TWO-WIRE			
Cat. No.	*Lights	Amp.	List Price	Cat. No.	*Lights	Amp.	List Price
58257	200	50	\$225.00	58268	30	50	\$230.00
58258	300	75	240.00	58269	50	75	240.00
58259	400	100	255.00	58270	60	100	250.00
58260	600	150	280.00	58271	100	150	270.00
58261	800	200	295.00	58272	120	200	280.00
58262	1200	300	320.00	58273	200	300	300.00
58263	1600	400	350.00	58274	240	400	320.00
58264	2400	600	400.00	58275	400	600	360.00
58265	3200	800	450.00	58276	500	800	390.00
58266	4800	1200	500.00	58277	800	1200	420.00
58267	6000	1500	550.00	58278	1000	1500	450.00

* Rated on a basis of 50 watts per lamp.

NOTE—Always state normal operating voltage of circuit when ordering.

For further information see Bulletin on this subject.

WATTMETERS

THOMSON DIRECT CURRENT ASTATIC METER

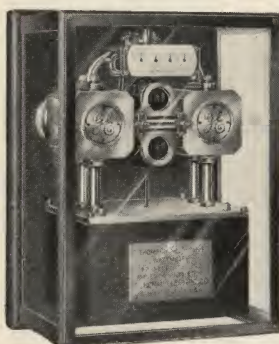
TYPE G-2

This meter is made along the same lines as the Type CS with the exception that the series coils are of the bus-bar type.

BACK CONNECTED, GLASS COVER, DULL BLACK FINISH

100-120 VOLTS

200-240 VOLTS—TWO-WIRE



Cat. No.	*Lights	Amp.	List Price	Cat. No.	*Lights	H.P.	Amp.	List Price
58350	4000	2000	\$440.00	58356	8000	550	2000	\$470.00
58351	6000	3000	470.00	58357	12000	800	3000	500.00
58352	8000	4000	500.00	58358	16000	1100	4000	530.00
58353	12000	6000	600.00	58359	24000	1600	6000	630.00
58354	16000	8000	850.00	58360	32000	2200	8000	850.00
58355	20000	10000	1100.00	58361	40000	2800	10000	1100.00

200-240 VOLTS—THREE-WIRE

500-600 VOLTS

Cat. No.	*Lights	Amp.	List Price	Cat. No.	H.P.	Amp.	List Price
58362	8000	2000	\$875.00	58366	1300	2000	\$500.00
58363	12000	3000	975.00	58367	2000	3000	530.00
58364	16000	4000	1100.00	58368	2600	4000	560.00
58365	24000	6000	1250.00	58369	4000	6000	660.00
				58370	5200	8000	850.00
				58371	6600	10000	1100.00

*Rated on a basis of 50 watts per lamp.

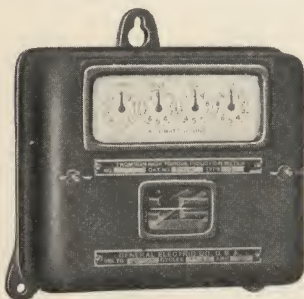
NOTE—Always state normal voltage of circuit.

For further information see Bulletin on this subject.

THOMSON HIGH TORQUE INDUCTION METER

TYPE I. (FOR HOUSE SERVICE) 25-133 CYCLES

The Thomson High Torque Single-Phase Induction Meters embody important improvements which are the result of years of manufacturing experience and close observation of meters in actual service. The highest torque of any induction meters in commercial use has been secured not by increased energy consumption, but by economical and scientific arrangement of the several parts. The feature of high torque insures long life with accuracy.



100-120 VOLTS				200-240 VOLTS—TWO-WIRE				200-240 VOLTS—THREE-WIRE			
Cat. No.	*Lights	Amp.	List Price	Cat. No.	*Lights	Amp.	List Price	Cat. No.	Lights	Amp.	List Price
51173	6	3	\$25.00	19042	12	3	\$30.25	33588	12	3	\$30.25
51174	10	5	25.00	51182	20	5	30.25	33589	20	5	30.25
51175	20	10	28.00	51183	40	10	36.00	33590	40	10	36.00
51176	30	15	32.00	51184	60	15	41.00	51191	60	15	41.00
51177	50	25	40.00	51185	100	25	50.00	51192	100	25	50.00
51178	100	50	53.50	51186	200	50	63.50	51193	200	50	63.50
51179	150	75	64.50	51187	300	75	74.50	51194	300	75	74.50
51180	200	100	74.50	51188	400	100	84.50	51195	400	100	84.50
51181	300	150	87.00	51189	600	150	98.00	51196	600	150	98.00
33584	400	200	98.00	33586	800	200	109.00				
33585	600	300	110.00	33587	1200	300	123.50				

* Rated on a basis of 50 watts per lamp.

Always give normal operating voltage and frequency of the circuit.

Approximate shipping weight: all voltages up to 25 amp. inclusive, 1 in a box, 26 lbs.; 2 in a box, 42 lbs.; 4 in a box, 78 lbs.; 6 in a box 115 lbs.; 50 to 100 amp. inclusive, 1 in a box, 30 lbs.; 2 in a box, 45 lbs.; 150 to 300 amp. inclusive, 1 in a box, 34 lbs.; 2 in a box, 50 lbs.

For further information see Bulletin on this subject.

THOMSON HIGH TORQUE INDUCTION WATTMETERS
FOR SINGLE-PHASE PRIMARY CIRCUITS

TYPE IS-2

25-40 CYCLES

60-133 CYCLES



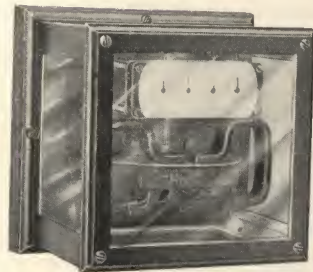
Type IS-2 Meter

*1000-1150 VOLTS			†2000-2300 VOLTS			*1000-1150 VOLTS			†2000-2300 VOLTS		
Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
49753	5	\$110.00	49771	5	\$140.00	41429	5	\$100.00	41515	5	\$130.00
49754	10	110.00	49772	10	140.00	41430	10	100.00	41516	10	130.00
49755	15	115.00	49773	15	145.00	41431	15	105.00	41517	15	135.00
49756	25	125.00	49774	20	150.00	41432	25	115.00	41518	20	140.00
49757	50	145.00	49775	30	155.00	41511	50	135.00	41519	30	145.00
49758	75	160.00	49776	40	160.00	41512	75	150.00	41520	40	150.00
49759	100	175.00	49777	60	170.00	41513	100	165.00	41521	60	160.00
49760	150	190.00	49778	80	180.00	41514	150	180.00	41522	80	170.00
			49779	100	190.00				41523	100	180.00
			49780	150	200.00				41524	150	190.00

* Price includes potential transformer.

† Price includes potential and current transformers.

WATTMETERS

THOMSON HIGH TORQUE INDUCTION WATTMETERS FOR
SINGLE-PHASE PRIMARY CIRCUITS (Concluded)

Type IS-3 Meter

TYPE IS-3

25-40 CYCLES

60-133 CYCLES

* 1000-1150 VOLTS			† 2000-2300 VOLTS			* 1000-1150 VOLTS			† 2000-2300 VOLTS		
Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
49791	5	\$125.00	58110	5	\$155.00	41568	5	\$115.00	41576	5	\$145.00
49792	10	125.00	58111	10	155.00	41569	10	115.00	41577	10	145.00
49793	15	130.00	58112	15	160.00	41570	15	120.00	41578	15	150.00
49794	25	140.00	58113	20	165.00	41571	25	130.00	41579	20	155.00
49795	50	160.00	58114	30	170.00	41572	50	150.00	41580	30	160.00
49796	75	175.00	58115	40	175.00	41573	75	165.00	41581	40	165.00
49797	100	190.00	58116	60	185.00	41574	100	180.00	41582	60	175.00
49798	150	205.00	58117	80	195.00	41575	150	195.00	41583	80	185.00
			58118	100	205.00				41584	100	195.00
			58119	150	215.00				41585	150	205.00

Always give normal operating voltage and frequency of circuit.
Approximate shipping weight, 1 in a box, 65 lbs.; 2 in a box, 130 lbs.
For further information see the Bulletin on this subject.

*Price includes potential transformer.
†Price includes potential and current transformers.



THOMSON POLYPHASE RECORDING WATTMETERS

The General Electric Company manufactures a special type of Thomson Recording Wattmeter for the specific purpose of measuring the energy delivered on two-phase or three-phase systems, to both balanced and unbalanced loads. This meter renders an accurate record of such energy in a single device and upon a single dial, and may be applied to a circuit having a mixed load of lamps, motors and other devices, no matter how unbalanced the load may be.

In the measurement of unbalanced loads the Thomson Polyphase Recording Wattmeter accomplishes what has heretofore been impracticable with a single metering device, and is therefore applicable to large numbers of installations which have previously required two or more meters for measurements.

In ordering polyphase meters, the system—two-phase or three-phase and the frequency—upon which the meters are to be used should be specified, as certain slight internal modifications are necessary.

TYPE D-3

FOR TWO-PHASE AND THREE-PHASE CIRCUITS—SHEET METAL COVER, JAPAN FINISH

100-120 VOLTS

25-140 CYCLES

200-240 VOLTS

200-240 VOLTS													
CAT. NO.			Amp.	Kw. Cap. Non Ind. Load	H. P. Cap. Motors 2- and 3-Phase	List Price	CAT. NO.			Amp.	Kw. Cap. Non Ind. Load	H. P. Mot. Cap. 2- and 3-Phase	List Price
3-Wire 3-Phase and 3-Wire 2-Phase	4-Wire 2-Phase	*4-Wire 3-Phase					3-Wire 3-Phase and 3-Wire 2-Phase	4-Wire 2-Phase	*4-Wire 3-Phase				
41314	41341	41368	3	1 1/2	1 1/2	\$65.00	41323	41350	41375	3	1	1	\$71.25
41315	41342	41369	5	1	1	65.00	41324	41351	41376	5	2	2	71.25
41316	41343	41370	10	2	2	70.00	41325	41352	41377	10	4	4	77.00
41317	41344	41371	15	3	3	75.00	41326	41353	41378	15	6	6	83.00
41318	41345	41372	25	5	5	82.00	41327	41354	41379	25	10	10	90.00
41319	41346	41373	50	10	10	92.50	41328	41355	41380	50	20	20	103.00
41320	41347	41374	75	15	15	102.50	41329	41356	41381	75	30	30	112.50
41321	41348		100	20	20	112.50	41330	41357		100	40	40	122.75
41322	41349		150	30	30	132.50	41331	41358		150	60	60	142.75
400-480 VOLTS							500-600 VOLTS						
44961	44970	44979	3	2	2	\$80.00	41332	41359	41382	3	3	3	\$80.00
44962	44971	44980	5	4	4	80.00	41333	41360	41383	5	5	5	80.00
44963	44972	44981	10	8	8	87.50	41334	41361	41384	10	10	10	87.50
44964	44973	44982	15	12	12	95.00	41335	41362	41385	15	15	15	95.00
44965	44974	44983	25	20	20	105.00	41336	41363	41386	25	25	25	105.00
44966	44975	44984	50	40	40	117.75	41337	41364	41387	50	50	50	117.75
44967	44976	44985	75	60	60	127.75	41338	41365	41388	75	75	75	127.75
44968	44977		100	80	80	137.75	41339	41366		100	100	100	137.75
44969	44978		150	120	120	157.75	41340	41367		150	150	150	157.75
* Voltage of motor for 240 volts							* Voltage of motor for 600 volts						

* Voltage of meters for 4-wire 3-phase system is that between neutral and outside.
For circuits in excess of 150 amperes, two current transformers are required for each meter, except 4-wire 3-phase where three current transformers are required above 75 amperes.
For circuits above 650 volts, two current and two potential transformers are necessary.
Always give normal operating voltage and frequency of circuit.
Approximate shipping weight: 1 in a box, 48 lbs.; 2 in a box, 94 lbs.
For further information see the Bulletin on this subject.

WATTMETERS

THOMSON PRIMARY POLYPHASE METERS

TYPE DS-4

FOR TWO-PHASE AND THREE-PHASE CIRCUITS—CAST METAL COVER, DULL BLACK FINISH

1000 TO 1150 VOLTS

2000 TO 2300 VOLTS



Amp.	Kw. Cap. Non- Ind. Load	H.P. Cap. Motor	25-40 CYCLES		60-133 CYCLES		Amp.	Kw. Cap. Non- Ind. Load	H.P. Cap. Motor	25-40 CYCLES		60-133 CYCLES	
			Cat. No.	List Price	Cat. No.	List Price				Cat. No.	List Price	Cat. No.	List Price
5	10	10	41389	\$275.00	41409	\$255.00	5	20	20	41399	\$275.00	41419	\$255.00
10	20	20	41390	280.00	41410	260.00	10	40	40	41400	280.00	41420	260.00
15	30	30	41391	290.00	41411	270.00	15	60	60	41401	290.00	41421	270.00
20	40	40	41392	300.00	41412	280.00	20	80	80	41402	300.00	41422	280.00
30	60	60	41393	310.00	41413	290.00	30	120	120	41403	310.00	41423	290.00
40	80	80	41394	320.00	41414	300.00	40	160	160	41404	320.00	41424	300.00
60	120	120	41395	330.00	41415	310.00	60	240	240	41405	330.00	41425	310.00
80	160	160	41396	340.00	41416	320.00	80	320	320	41406	340.00	41426	320.00
100	200	200	41397	350.00	41417	330.00	100	400	400	41407	350.00	41427	330.00
150	300	300	41398	365.00	41418	345.00	150	600	600	41408	365.00	41428	345.00

To measure output of generators, use Kw. capacity as given above.
List price includes two current and two potential transformers.

Always give normal operating voltage and frequency of circuit.

Prices of polyphase meters for use on three-phase, four-wire circuits will be furnished on application.

Approximate shipping weight, 195 lbs.

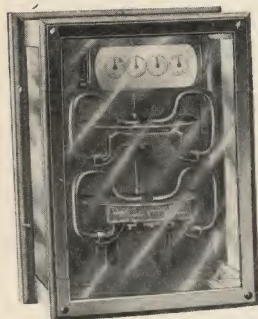
For further information see the Bulletin on this subject.

TYPE DS-5

FOR TWO-PHASE AND THREE-PHASE CIRCUITS—RECTANGULAR GLASS COVER, DULL BLACK FINISH

1000 TO 1150 VOLTS

2000 TO 2300 VOLTS



Amp.	Kw. Cap. Non- Ind. Load	H.P. Cap. Motor	25-40 CYCLES		60-133 CYCLES		Amp.	Kw. Cap. Non- Ind. Load	H.P. Cap. Motor	25-40 CYCLES		60-133 CYCLES	
			Cat. No.	List Price	Cat. No.	List Price				Cat. No.	List Price	Cat. No.	List Price
5	10	10	41528	\$300.00	41548	\$280.00	5	20	20	41538	\$300.00	41558	\$280.00
10	20	20	41529	310.00	41549	290.00	10	40	40	41539	310.00	41559	290.00
15	30	30	41530	330.00	41550	310.00	15	60	60	41540	330.00	41560	310.00
20	40	40	41531	340.00	41551	320.00	20	80	80	41541	340.00	41561	320.00
30	60	60	41532	350.00	41552	330.00	30	120	120	41542	350.00	41562	330.00
40	80	80	41533	360.00	41553	340.00	40	160	160	41543	360.00	41563	340.00
60	120	120	41534	370.00	41554	350.00	60	240	240	41544	370.00	41564	350.00
80	160	160	41535	380.00	41555	360.00	80	320	320	41545	380.00	41565	360.00
100	200	200	41536	390.00	41556	370.00	100	400	400	41546	390.00	41566	370.00
150	300	300	41537	405.00	41557	385.00	150	600	600	41547	405.00	41567	385.00

To measure output of generators, use kw. capacity as given above.
List price includes two current and two potential transformers.

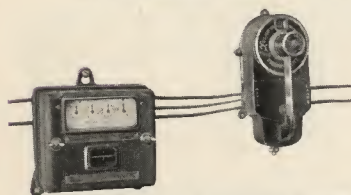
Always give frequency of circuit, and normal operating voltage.

Prices of polyphase meters for use on three-phase, four-wire circuits will be furnished on application.

Approximate shipping weight, 1 in a box, 135 lbs.; glass cover in separate box, 60 lbs.; total 195 lbs.

For further information see Bulletin on this subject.

THOMSON HIGH TORQUE INDUCTION METER WITH PREPAYMENT DEVICE



Meter with Separate Prepayment Device,
Type IP

WITH SEPARATE PREPAYMENT DEVICE—TYPE IP

Amp.	100-120 VOLTS 2-WIRE		200-240 VOLTS 3-WIRE		200-240 VOLTS 2-WIRE	
	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
3	39296	\$50.00	39301	\$55.25	39305	\$55.25
5	39297	50.00	39302	55.25	39306	55.25
10	39298	53.00	39303	61.00	39307	61.00
15	39299	57.00	39304	66.00	39308	66.00

WITH COMBINED PREPAYMENT DEVICE
TYPE IP-2

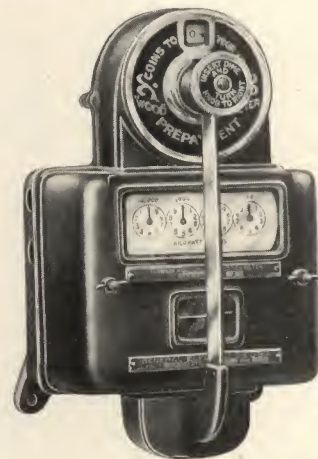
Amp.	100-120 VOLTS 2-WIRE		200-240 VOLTS 3-WIRE		200-240 VOLTS 2-WIRE	
	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
3	39309	\$45.00	39314	\$50.25	39318	\$50.25
5	39310	45.00	39315	50.25	39319	50.25
10	39311	48.00	39316	56.00	39320	56.00
15	39312	52.00	39317	61.00	39321	61.00

Standard calibration rates are 6, 8, 9, 10, 12, 12.5, 15, 18, 20 cents per kilowatt hour. The rates can be modified if desired by the substitution of suitable gears. An additional charge will be made for rates other than standard.

Always specify rate of charge, normal operating voltage, and frequency of the circuit; the number of keys desired and to whom they should be sent.

Approximate shipping weight, 1 in a box, with device, 40 lbs.; 2 in a box, with device, 75 lbs.

For further information see Bulletin on this subject.



Meter with Combined Prepayment
Device—Type IP-2

WATTMETERS

THOMSON DIRECT CURRENT RECORDING WATTMETERS WITH PREPAYMENT DEVICE
WITH SEPARATE PREPAYMENT DEVICE—TYPE CP WITH COMBINED PREPAYMENT DEVICE—TYPE CP-2

100-120 VOLTS 2-WIRE			200-240 VOLTS 3-WIRE			200-240 VOLTS 2-WIRE			100-120 VOLTS 2-WIRE			200-240 VOLTS 3-WIRE			200-240 VOLTS 2-WIRE		
Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
39282	5	\$56.00	39285	5	\$60.00	39287	5	\$60.00	39289	5	\$53.00	39292	5	\$57.00	39294	5	\$57.00
39283	10	58.00	39286	10	65.00	39288	10	65.00	39290	10	55.00	39293	10	62.00	39295	10	62.00
39284	15	62.00	39431	15	72.00	39432	15	72.00	39291	15	59.00	39433	15	69.00	39434	15	69.00

Standard calibration rates are 6, 8, 9, 10, 12, 12.5, 15, 18, 20 cents per kilowatt hour. The rates can be modified if desired by the substitution of suitable gears. An additional charge will be made for rates other than standard. Always specify rate of charge, normal operating voltage, and frequency of the circuit; the number of keys desired and to whom they should be sent.

Approximate shipping weight, 1 in a box, with device, 40 lbs.; 2 in a box, with device, 75 lbs.
For further information see Bulletin on this subject.

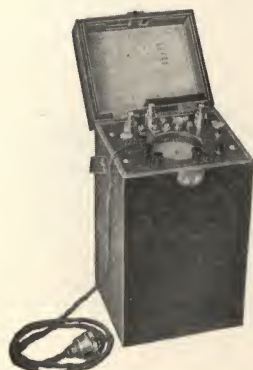
THOMSON DIRECT CURRENT AND HIGH TORQUE INDUCTION TEST METERS

The question of periodical meter testing is of vital importance to every central station or isolated plant, since the revenue received depends upon the accuracy of the meters integrating the electrical energy.

The customary method of making such tests has been by indicating instruments, and although there is no question regarding this method, the rapid growth of electric lighting and power plants demands that some way be provided whereby tests can be made more quickly and with the same degree of reliability. These requirements are met by the Thomson Direct Current and High Torque Induction Test Meters.

A meter of this type can be used whether the load be constant or variable, since the only observations necessary are the number of disk revolutions of the meter undergoing test, and the pointer indications of the standard meter before and after test. The time-saving qualities of this meter will be appreciated when it is remembered that check tests are unnecessary, and readings once started can be continued irrespective of load fluctuations.

Personal errors of observation are practically eliminated, and the use of a stop watch is unnecessary.



Type CB-2 Test Meter



Type IB-3 Test Meter

TYPE CB-2 DIRECT CURRENT PORTABLE
TEST METER

Cat. No.	Amp.	Volts	List Price
49640	1/2/10/20/40	110	\$170.00
48836	1/2/10/20/40	110/220	180.00
60646	5/10/50/100	110	200.00
60647	5/10/50/100	110/220	210.00

IB-3 ALTERNATING CURRENT PORTABLE
TEST METER

Cat. No.	Amp.	Volts	List Price
48988	1/10/20	110	\$120.00
60154	1/5/10/50/100	110	160.00
60354	1/10/20	110/220	130.00
62339	1/5/10/50/100	110/220	170.00

For further information see the Bulletins on these subjects.



POLYPHASE MAXIMUM WATT DEMAND INDICATOR, TYPE W

Commercial Maximum Demand Indicators have heretofore been confined to devices which would indicate the maximum ampere demand only, and obviously were not suitable for recording the maximum load on alternating current circuits of other than unity power factor and constant voltage.

In many cases, particularly in motor installations, it is necessary to know the actual watt consumption, and for this reason the General Electric Company has designed the Polyphase Maximum Watt Demand Indicator, which is suitable for recording the maximum load on alternating current circuits irrespective of power factor and voltage fluctuations.

WATTMETERS

POLYPHASE MAXIMUM, WATT DEMAND INDICATOR, TYPE W (Concluded)
 FOR SECONDARY, THREE-PHASE AND TWO-PHASE CIRCUITS—25-133 CYCLES
 FOR PRIMARY, THREE-WIRE THREE-PHASE, THREE- AND FOUR-WIRE TWO-PHASE CIRCUITS

RECTANGULAR PATTERN—FRONT CONNECTED—METAL COVER DULL BLACK FINISH
 200-240 VOLTS

RECTANGULAR PATTERN—FRONT CONNECTED—METAL COVER DULL BLACK FINISH
 1000-1150 VOLTS

CAT. NO.		Amp.	Full Scale Capacity Kw.	List Price	Amp.	Full Scale Capacity Kw.	25-40 CYCLES		60-133 CYCLES	
3-Wire, 3-Phase 3-Wire, 2-Phase	4-Wire, 2-Phase						Cat. No.	List Price	Cat. No.	List Price
60800	60829	50	25	\$140.00	10	25	60858	\$283.50	60887	\$268.00
60801	60830	75	35	150.00	15	35	60859	291.00	60888	275.00
60802	60831	100	50	160.00	20	50	60860	296.00	60889	280.00
60803	60832	150	75	180.00	30	75	60861	301.00	60890	285.00
					40	100	60862	305.00	60891	290.00
					60	150	60863	316.00	60892	300.00
					80	200	60864	326.00	60893	310.00
					100	250	60865	336.00	60894	320.00
					150	350	60866	356.00	60895	340.00
400-480 VOLTS										
60809	60838	25	25	\$142.00						
60810	60839	50	50	155.00						
60811	60840	75	75	165.00						
60812	60841	100	100	175.00						
60813	60842	150	150	195.00						
500-600 VOLTS										
60819	60848	25	30	\$142.00	5	25	60872	\$276.00	60901	\$260.00
60820	60849	50	60	155.00	10	50	60873	283.50	60902	268.00
60821	60850	75	100	165.00	15	75	60874	291.00	60903	275.00
60822	60851	100	120	175.00	20	100	60875	296.00	60904	280.00
60823	60852	150	200	195.00	30	150	60876	301.00	60905	285.00
					40	200	60877	305.00	60906	290.00
					60	300	60878	316.00	60907	300.00
					80	400	60879	326.00	60908	310.00
					100	500	60880	336.00	60909	320.00
					150	750	60881	356.00	60910	340.00

Prices for four-wire, three-phase indicators furnished on application.

NOTE—Always state normal voltage and frequency of the circuit. For further information see the Bulletin on this subject.

Cat. Nos. and list prices include two current and two potential transformers.

WRIGHT DEMAND INDICATORS

The Wright Demand Indicator is a device for registering the maximum ampere demand of appreciable duration in any electrical circuit.

The Wright Demand Indicator may be used on either direct or alternating current circuits and records the maximum current which has passed through it at any time since it was last set.

It is purposely designed to be slow acting. If the maximum load lasts only four minutes, the Indicator will record approximately 90 per cent. of the maximum. If the load lasts ten minutes, approximately 97 per cent. is recorded and if the load continues about 40 minutes, the full 100 per cent. is registered. Momentary overloads like the starting current in motors, arc lamps, etc., or short circuits are not recorded.



FOR CIRCUITS NOT EXCEEDING 750 VOLTS
 DIRECT OR ALTERNATING CURRENT

DIRECT OR ALTERNATING CURRENT						DIRECT CURRENT ONLY					
Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
48337	5	\$12.00	48340	25	\$12.00	48343	75	\$16.00	48346	200	\$24.00
48338	10	12.00	48341	35	16.00	48344	100	16.00	48347	300	26.00
48339	15	12.00	48342	50	16.00	48345	150	23.00	48348	400	29.00
									48349	600	35.00

Prices of Wright Demand Indicators of larger ampere capacities furnished on application.

METER BOARD

This meter board, which is intended for mounting service meters, is moulded from a special insulating compound, and possesses decided advantages over the customary wooden board.

It is non-inflammable, will not crack or warp, is a good insulator, and has a pleasing appearance. It is fitted with a supporting screw at the top and two adjustable clamps at the bottom, features which permit rapid installation of meters.

It will support any make of induction meter up to 25 amperes capacity.

The dimensions of the board are $9\frac{1}{8} \times 10\frac{1}{8} \times \frac{7}{8}$. It is finished in dull black.

Cat. No. 76787. Price \$0.25 net.



ADJUSTABLE SHUNT FIELD COIL FOR THOMSON RECORDING WATTMETERS



Only one adjustable shunt field coil is necessary except for meters of 1200 ampere capacity, which require two, either or both of which may be used in making the light load adjustment. In ordinary separate adjustable shunt coils it should be noted that shunts are catalogued for high and low efficiency meters.

Cat. No.	Description	List Price
31266	For low efficiency meters ..	\$1.25
31267	For high efficiency meters..	1.25

For further information see the Bulletin on this subject.



PIVOT AND JEWELS FOR THOMSON RECORDING WATTMETERS



Cat. No. 6827
PIVOT

Cat. No.	Sapphire Jewels	Finish	Net Price
6704	Stationary headless		
31320*	For meters with single aluminum disk (earlier than Type "C" and Type "I")	Nickel	\$0.35
6672*	" copper disk	Brass	.35
39924	" Type "I" and Type "C" meter .....		.35
	Cup Diamond Jewels		
39925 **	For Type "C" meter	Brass	\$1.90
39926 **	" "E" and "G" meters, also other commutating meters earlier than Type "C"	Copper	1.90
	Pivot		
6827	Pivot or shaft end for all jewels		\$0.08

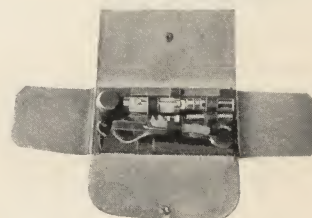
Diamond jewels are standard for all commutating meters of 50 Kw. capacity and larger.

METER TOOLS

Cat. No.	Description	List Price
5493	Pocket meter sealing tool	\$4.00
	Pocket meter sealing tool engraved "GE"	4.50
44955	Pocket meter sealing tool with purchaser's initials	5.25
5770	Duplex sealing wire with loose lead . . . per 1000	5.50
	Complete pocket set of meter adjustment tools in case. Includes jewel wrench, pivot wrench, top bearing and brush stud wrench, brush and magnet cleaners, magazine screwdriver, level, etc.	6.50



Cat. No. 5493



Cat. No. 5770

METER TESTING RHEOSTAT

When using the load box the sides of the case are swung open and serve as supports. The box is substantially made and neatly finished in black japan.

Cat. No.	Range	Weight	Dimensions	List Price
65294	$\frac{1}{2}$ to 15 Amps.	7 lbs.	$7\frac{1}{2}" \times 14" \times 1\frac{3}{4}"$	\$20.00



Cat. No. 65294

FINISHES

TYPE G2 METERS—Cover has metal frame with glass top, bottom, sides and front. The metal parts of the cover have dull black finish, the fields grained copper; studs supporting magnetic shield, polished brass; the shield black enamel with edge of upper plate polished copper.

PREPAYMENT METERS, Types CP, CP 2, IP and IP 2—The finish of the meter and the prepayment device is the same as that of the Type C6 and Type I meters.

WATTMETERS (Concluded)—PORTABLE INSTRUMENTS

FINISHES

TYPE I METERS—Front connected for house installation, have pressed metal covers. The cover and black are finished in black japan.

TYPE IS 2 METERS—Back connected, for switchboard installation, have cast metal covers finished in dull black, raised portions buffed to copper.

TYPE IS 3 METERS—Also back connected, have rectangular glass covers with cast metal frame; the metal parts of cover and interior of meter have dull black finish.

TYPE D 3 METERS—Front connected for house installation, have sheet metal covers finished in black japan; the back is black japan and interior parts of the meter are dipped and lacquered.

TYPE DS 4 METERS—Back connected for switchboard installation, have cast metal covers finished in dull black, raised portions buffed to copper.

TYPE DS 5 METERS—Also back connected, have rectangular glass covers with cast metal frame; the metal parts of cover and interior of meter have dull black finish.

PORTABLE INSTRUMENTS—TYPE P-3

These instruments are of the highest grade and are recommended for laboratory and general testing purposes where extreme accuracy is essential. They are magnetically damped and protected from stray fields.

The voltmeters and wattmeters are constructed on the direct reading dynamometer principle, and the ammeters on the principle of the well-known Thomson inclined coil. The instruments excel in mechanical construction, are neat in appearance and very substantial. They are contained in neat carrying cases provided with hinged cover and snap lock.

Wattmeters and voltmeters may be used interchangeably on direct and alternating current. Ammeters may be so used on direct current by taking reverse readings.



Type P-3 Portable Instrument

SINGLE-PHASE WATTMETERS

VOLTMETERS			100-125 VOLTS			200-250 VOLTS				
Cat. No.	Cap.	List Price	Cat. No.	CAPACITY		List Price	Cat. No.	CAPACITY		List Price
				Amp.	Watts			Amp.	Watts	
49447	150	\$100.00	49450	1.5	150	\$120.00	58417	1.5	300	\$130.00
49448	300	105.00	49451	3	300	120.00	58418	3	600	130.00
49449	600	110.00	49452	5	500	125.00	58419	5	1000	135.00
			49453	10	1000	125.00	58420	10	2000	135.00
			49454	15	1500	130.00	58421	15	3000	140.00
			49455	20	2000	130.00	58422	20	4000	140.00
			49456	30	3000	135.00	58423	30	6000	145.00
AMMETERS			500-600 VOLTS							
49499	2	\$80.00								
49442	5	80.00	58424	1.5	750	\$140.00	58428	15	7500	\$150.00
49443	10	80.00	58425	3	1500	140.00	58429	20	10000	150.00
49444	15	80.00	58426	5	2500	145.00	58430	30	15000	155.00
49445	20	90.00	58427	10	5000	145.00				
49446	30	90.00								

* POLYPHASE INDICATING WATTMETERS

100-125 VOLTS			200-250 VOLTS			500-600 VOLTS					
Cat. No.	CAPACITY		List Price	Cat. No.	CAPACITY		List Price	Cat. No.	CAPACITY		List Price
	Amp.	Watts			Amp.	Watts			Amp.	Watts	
			\$205.00	60548	5-10	2000	\$215.00	60553	5-10	5000	\$230.00
60543	5-10	1000		60549	10-20	4000	\$220.00	60554	10-20	10000	\$235.00
60544	10-20	2000	\$210.00	60550	15-30	6000	\$225.00	60555	15-30	15000	\$240.00
60545	15-30	3000	\$215.00	60551	20-40	8000	\$230.00	60556	20-40	20000	\$245.00
60546	20-40	4000	\$220.00	60552	30-60	12000	\$235.00	60558	30-60	30000	\$250.00
60547	30-60	6000	\$225.00								

*The above instruments have double current windings arranged for series multiple connections. They have single potential windings which are self-contained. Instruments with double potential windings can be furnished in ratios of 2:1 for \$10.00 list in addition to price of single range instruments of maximum range selected.

For further information refer to the Bulletin on this subject.

PORTABLE INSTRUMENTS—TYPE P

THOMSON INCLINED COIL PORTABLE AMMETERS, VOLTMETERS AND WATTMETERS



Wattmeter

These instruments are accurate and permanent, irrespective of frequency, and may be relied upon for all measurements of alternating current circuits. They may also be used with good results on direct current circuits.

Their construction is such as to enable them to withstand, without loss of accuracy, the rough usage to which they may be exposed.

The wattmeters will be found particularly useful for meter, incandescent lamp, transformer and alternating current arc lamp measurements.

The permissible maximum current and voltage are marked upon each instrument.

The standard finish is black oxide cover with mahogany base.

A hard wood carrying case is supplied with each instrument.

PORTABLE INSTRUMENTS

PORTABLE INSTRUMENTS—TYPE P (Concluded)

AMMETERS

VOLTMETERS

WATTMETERS—100-125 VOLTS

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Volts	List Price	Cat. No.	Amp.	Watts	List Price	Cat. No.	Amp.	Watts	List Price
6461	2	\$40.00	40685	40	\$40.00	3335	65	\$50.00	7986	1.5	150	\$75.00	40691	40	4000	\$110.00
28789	5	40.00	40686	60	40.00	3336	130	50.00	7981	3	300	75.00	40692	60	6000	110.00
6456	10	40.00	40687	80	50.00	3344	300	50.00	30527	5	500	75.00	40693	80	8000	115.00
3332	15	40.00	6459	100	50.00	3337	600	50.00	28860	10	1000	75.00	8093	100	10000	115.00
40683	20	40.00	40688	150	50.00				7982	15	1500	75.00	8094	150	15000	120.00
40684	30	40.00	6460	200	50.00				40689	20	2000	75.00	8095	200	20000	125.00
									40690	30	3000	75.00				

Approximate shipping weight; 1 in a box, 17 lbs.; 2 in a box, 40 lbs.; 3 in a box 85 lbs.

MULTIPLIERS FOR PORTABLE VOLTMETERS AND WATTMETERS



Capacity of Instrument in Volts	Ratio	List Price	Capacity of Instrument in Volts	Ratio	List Price
65	2 : 1	\$20.00	130-150	4 : 1	\$25.00
130-150	2 : 1	20.00	130-150	5 : 1	30.00
300	2 : 1	25.00			

The serial numbers of the instruments with which the multipliers are to be used must in all cases be given when ordering multipliers for instruments already in customer's possession.
For further information refer to the Bulletin on this subject.

LAMP TESTING WATT INDICATOR—TYPE L

The Type L instrument has been designed to demonstrate the efficiency of the new metallic filament incandescent lamps.

It is constructed on the Thomson inclined coil principle, and has a scale marked directly in watts, at different voltage values. The moving element is mounted in jewelled bearings. The case consists of a single aluminum alloy casting, on each side of which is a brass dome. At the top there is an Edison screw plug, and at the bottom a lamp receptacle.

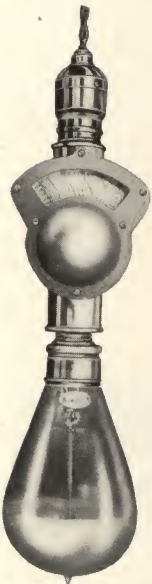
Although the Lamp Testing Wattmeter is intended for use with Edison sockets and lamps equipped with the Edison base, an adapter can be supplied permitting its use with either the Thomson-Houston or Westinghouse socket or lamp base.

The instrument is provided with a multiple scale, permitting direct readings when used on 100, 105, 110, 115 and 120 volts. For intermediate voltages, readings may be interpolated. The capacity of the winding is $1\frac{1}{2}$ amperes and the maximum scale marking is 125 watts.

The instrument may be used on a 240 volt circuit by multiplying by 2 the indications of the pointer as read on the 120 volt scale; or if desired the instrument can be furnished with a 250 watt scale.

Instrument is provided with leather case and is of such dimensions that it can easily be carried in coat pocket.

The aluminum part of the case is buffed, while the domes are finished in black oxide.



Cat. No.	Amperes	Watts	List Price
60565	1.5	125	\$28.00

For further information refer to the Bulletin on this subject.

LAMP INSPECTOR'S INDICATING WATTMETER TYPE P-2

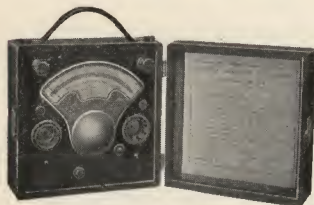
These instruments are correct on any potential and current within the limits of the instruments, and, by taking reversed readings for which a reversing key is provided to eliminate the errors due to local fields, are correct on direct current circuits.

The instrument is mounted in a mahogany box.

For further information refer to the Bulletin on this subject.

PORTABLE INSTRUMENTS

LAMP INSPECTOR'S INDICATING WATTMETER, TYPE P-2 (Concluded)



Cat. No.	Amps.	Watts	List Price
7987	1.5	150	\$100.00



POCKET INSTRUMENTS TYPES O AND OS

The Pocket instruments are designed in a form so compact as to permit of their being carried in a side pocket of a coat. They may be used upon either direct or alternating current circuits.

The covers of front connected instruments are finished in black oxide, those of back connected instruments in dull black. The bases of both are polished copper.

For mercury arc rectifier panels and small isolated plants, such as house and yacht installations, a modified form of the pocket type of Ammeter and Voltmeter, calibrated for use in a vertical position, is compact, satisfactory and economical. For this service, the pocket type of Ammeter can be provided with back or front connections.

AMMETERS

Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price
7975	2	\$25.00	40695	30	\$25.00
28790	5	25.00	40696	40	30.00
7976	10	25.00	40697	60	30.00
37901	15	25.00	*40698	80	30.00
40694	20	25.00	*33742	100	30.00

VOLTMETERS

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
7984	75	\$30.00	37942	300	\$35.00
7985	150	30.00			



Voltmeter—Front Connected Type O

* Made in back connected form only.
Type O instruments are front connected; type OS back connected.
Approximate shipping weight, 1 in a box, 7 lbs.; 2 in a box, 18 lbs.
For further information refer to the Bulletin on this subject.

DIRECT CURRENT PORTABLE INSTRUMENTS—TYPE DP

The direct current ammeters and voltmeters, Type DP, are constructed on the D'Arsonval principle. Ammeters are made self-contained up to and including 30 amperes; higher capacities are furnished with 200 milli-volt portable shunts.

DP instruments have uniform scales, are magnetically damped, shielded from stray fields, and are practically free from error due to changes in temperature. They are high grade and are strongly recommended for laboratory and general testing purposes.

This instrument is contained in a polished mahogany case; the metal parts have nickel trimmings.

The Type DP instruments are 8 in. square, 4½ in. deep, and weigh 7¼ lb.

Where it is desirable to use an instrument to cover a wide range of current, a milli-voltmeter can be furnished for use with any combination of single, double, or triple rated shunts which the customer may choose. Milli-voltmeters for use with shunts are furnished with single scales marked in either 100 or 150 divisions, or with double scales marked in 100 and 150 divisions. The standard capacities of portable shunts have been so selected that, regardless of which capacities are chosen, the above scales will permit the true current to be quickly determined, as each scale division will represent 1, 2, or 5 amperes, or some decimal increase or decrease thereof. Where instruments are desired for a class of work which does not require extreme precision, a milli-voltmeter adjusted to give full scale deflection when subjected to a drop of 60 milli-volts can be furnished. Such an instrument may be used in connection with switchboard shunts. Form 3 shunts, listed on page 43 may be used in connection with milli-voltmeters for this purpose. If desired, a 200 milli-volt voltmeter can be furnished with a tap brought out at 60 milli-volts adapting the instrument for use with both portable and switchboard shunts.

The portable shunts are mounted on a base made of an aluminum alloy, combining lightness with durability, and are protected by a perforated sheet-metal casing.

For further information refer to the Bulletin on this subject.



Type DP Voltmeter



Type DP Milli-Voltmeter and Shunt

Form 3 shunts, listed on page 43 may be used in connection with milli-voltmeters for this purpose. If desired, a 200 milli-volt voltmeter can be furnished with a tap brought out at 60 milli-volts adapting the instrument for use with both portable and switchboard shunts.

PORTABLE INSTRUMENTS

DIRECT CURRENT PORTABLE INSTRUMENTS—TYPE DP (Continued)

* AMMETERS

† VOLTMETERS

Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Volt Cap.	List Price
60239	5	\$70.00	60246	75	\$109.00	60253	50	\$68.00
60240	10	70.00	60248	100	117.00	60254	100	70.00
60241	15	72.00	60249	150	125.00	60255	150	72.00
60242	20	74.00	60250	200	129.00	60256	300	75.00
60243	30	76.00	60251	300	137.00	60257	500	80.00
60244	50	103.00	60252	500	153.00	60258	750	85.00

† Double-scale voltmeters will be furnished if desired at a price of **\$10.00** list additional to that of highest range selected.

Voltmeters are self-contained in capacities up to and including 750 volts.

* Ammeters are self-contained up to and including 30 amperes. Higher capacities cover milli-voltmeter with 200 milli-volt external portable shunts.

For measuring very low voltages and currents, we are prepared to furnish milli-voltmeters and mil-ammeters as listed on this page. The scales of these instruments will be marked in milli-volts and mil-amperes.

MILLI-VOLTMETERS FOR USE WITH
FORM 3 SHUNTS

MILLI-VOLTMETERS

MIL-AMMETERS

Cat. No.	Scale Div.	Full Scale Cap. Milli-volts	List Price	Cat. No.	Milli-volt Capacity	List Price	Cat. No.	Mil-ampere Capacity	List Price
60326	{ 100	60	\$65.00	60259	20	\$65.00	60279	150	\$65.00
60421	{ 150	60	65.00	60260	60	65.00	60280	300	65.00
60422	100	60	65.00	60261	100	65.00	60281	600	65.00
	150	60	65.00	60262	200	65.00	60282	1000	65.00
							60283	1500	65.00

FORM 3 SWITCHBOARD SHUNTS, 60 MILLI-VOLT FOR USE WITH DP MILLI-VOLTMETERS

Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
60313	75	\$3.00	60316	200	\$5.00	60320	750	\$12.00	60323	2000	\$36.00
60314	100	3.00	60318	300	7.00	60321	1000	15.00	60324	2500	40.00
60315	150	4.00	60319	500	9.00	60322	1500	27.00	60325	3000	44.00

MILLI-VOLTMETER FOR USE WITH 200 MILLI-VOLT PORTABLE SHUNT

Cat. No.	Scale Div.	Full Scale Cap. Milli-volts	List Price	Cat. No.	Scale Div.	Full Scale Cap. Milli-volts	List Price
60423	100	200	\$65.00	*60425	100	200	\$75.00
60424	150	200	65.00	*60427	150	200	75.00
60284	{ 100	200	65.00	*60328	{ 100	200	75.00
	{ 150	200	65.00		{ 150	200	75.00

* These meters have a tap brought out at 60 milli-volts adapting them for use with form 3 shunts.

PORTABLE SHUNTS—200 MILLI-VOLT FOR USE WITH DP MILLI-VOLTMETERS

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price	Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
60263	1	\$18.00	60267	15	\$26.00	60271	75	\$44.00	60274	200	\$64.00
60264	3	20.00	60268	20	28.00	60272	100	52.00	60275	300	72.00
60265	5	22.00	60269	30	32.00	60273	150	60.00	60276	500	88.00
60266	10	24.00	60270	50	38.00						

PORTABLE INSTRUMENTS—SWITCHBOARD INSTRUMENTS

DIRECT CURRENT PORTABLE INSTRUMENTS—TYPE DP (Concluded)

MULTI-RATIO 200 MILLI-VOLT PORTABLE SHUNTS FOR USE WITH DP MILLI-VOLTMETERS

DOUBLE-RATED—TWO SHUNTS COMBINED IN ONE CASE

Cat. No.	Amperes	List Price	Cat. No.	Amperes	List Price	Cat. No.	Amperes	List Price	Cat. No.	Amperes	List Price
60358	5-1	\$38.00	60361	20- 5	\$44.00	60364	75-15	\$66.00	60367	200- 50	\$90.00
60359	10-2	40.00	60362	30- 7.5	46.00	60365	100-20	76.00	60368	300- 75	100.00
60360	15-3	42.00	60363	50-10	54.00	60366	150-30	85.00	60369	500-100	120.00

TRIPLE RATED—THREE SHUNTS COMBINED IN ONE CASE

60370	5-1-2	\$48.00	60374	20- 5-1	\$60.00	60377	75-15-3	\$80.00	60380	200-50-10	\$100.00
60372	10-2-5	50.00	60375	30-7.5-1.5	66.00	60378	100-20-5	85.00	60381	300-75-15	120.00
60373	15-3-7.5	54.00	60376	50-10-2	76.00	60379	150-30-7.5	94.00			

SWITCHBOARD INSTRUMENTS

THOMSON ASTATIC INSTRUMENTS FOR CONTINUOUS CURRENT SWITCHBOARDS



Thomson Astatic Instruments have no controlling springs and the accuracy of the instruments is not affected by changes in magnet strength.

The effects of external fields are eliminated by the astatic arrangement of the fields and the moving elements.

The fields of these instruments are electro-magnets wound for 125, 250 or 550 volts, and provided with binding posts separate from the current posts of the instrument.

Indications are rendered dead beat by a magnetic damping system.

Two 60-volt miniature incandescent candelabra lamps, Style F, are used for illuminating the scales of all illuminated dial instruments excepting those having an exciting voltage of 250, which are shipped with 120-volt lamps.

A record is kept of the resistance of the shunts shipped with all instruments.

The binding posts of these instruments are so placed that they may be used for front or back connection without alteration.

The standard finish is dull black with raised portions of cover finished in copper. Unless otherwise specified, five-foot leads are furnished with ammeter shunts.

AMMETERS

FEEDER TYPE AMMETERS, TYPE A

Cat. No.	Amps.	*List Price	Cat. No.	Amps.	*List Price
56123	15	\$62.00	3348	200	\$68.00
40615	20	63.00	3349	300	70.00
40616	30	63.00	56126	400	72.00
40617	40	64.00	3376	600	76.00
40618	60	64.00	3351	800	78.00
40619	80	65.00	3352	1000	82.00
3347	100	65.00	3353	1500	98.00
56125	150	67.00	3354	2000	110.00

ILLUMINATED DIAL AMMETERS, TYPE AI

Cat. No.	Amps.	*List Price	Cat. No.	Amps.	*List Price
3359	300	\$160.00	3363	1500	\$182.00
40620	400	162.00	3364	2000	190.00
3377	600	164.00	3366	3000	198.00
3361	800	166.00	3367	4000	215.00
3362	1000	168.00	40621	6000	300.00

* The price includes the shunt.
Orders must always specify the voltage of the circuit on which the instrument is to be used. Ordering by Cat. No. and rated capacity is not sufficient.
Approximate shipping weight: 15 to 800 amp. with shunt, 1 in a box, 65 lbs.; 2 in a box, 115 lbs.; 4 in a box, 150 lbs.
For further information refer to the Bulletin on this subject.

VOLTMETERS

ILLUMINATED DIAL VOLTMETERS, TYPE AI

Cat. No.	Capacity Volts	List Price	Cat. No.	Capacity Volts	List Price
3398	100	\$150.00	3370	350	\$158.00
3399	175	154.00	3371	750	162.00

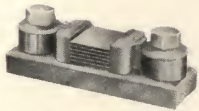
FEEDER TYPE VOLTMETERS, TYPE A

Cat. No.	Capacity Volts	List Price	Cat. No.	Capacity Volts	List Price
3396	100	\$70.00	3357	350	\$82.00
3397	175	78.00	3358	750	92.00

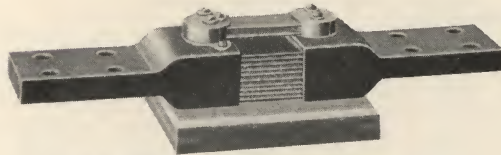
When Illuminated Dial Astatic Instruments are required to indicate reversal of polarity they should be ordered "with polarity indicator." For this an extra charge, \$2.50 net each, is made. These instruments are not carried in stock.
With proper polarity the indicator does not show. When the polarity is reversed the red disk swings to the center of the scale.
Orders must always specify the excitation voltage of the circuit on which the instrument is to be used. Ordering by catalogue number and rated capacity is not sufficient.
Approximate shipping weight: 1 in a box, 65 lbs.; 2 in a box, 115 lbs.; 4 in a box, 150 lbs.
For further information refer to the Bulletin on this subject.

SWITCHBOARD INSTRUMENTS

SHUNTS FOR ASTATIC INSTRUMENTS



Form 2 Shunt
75 to 800 Amperes



Form 2 Shunt with Thermo-Electric Attachment
1000 to 4000 Amperes



Form 1 Shunt with Thermo-Electric Attachment, 1000 to 4000 Amperes

Two standard forms of shunts are manufactured for use in connection with Thomson Astatic Instruments. The general characteristics of these two types are shown in the accompanying illustrations. The Form 2 shunt is known as the "Supply Shunt," and will be furnished with all astatic instruments ordered individually unless the other form of shunt is specified. The Form 1 shunt is known as the "Switchboard Shunt," and will be furnished on all orders for complete switchboards or complete switchboard equipments unless the other form of shunt is specified.

THERMO-ELECTRIC DEVICE FOR DIRECT CURRENT AMMETER SHUNTS

All shunts in excess of 1000 amperes are provided with thermo-electric attachments. This prevents the superimposing of secondary thermo-electric currents upon the primary current, which are due to the fall of potential in the shunt and the amount of which fixes the value of the indication of the instrument. Ammeter shunts with this attachment will be found free from temperature errors due to generation of thermo-electric current.

For further information refer to the Bulletin on this subject.

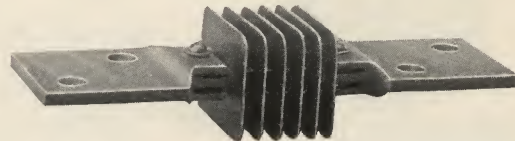
DIRECT CURRENT INSTRUMENTS

TYPE D 2

The Type D 2 Direct Current Instruments are constructed upon the well known D'Arsonval principle and are designed for switchboard use. They are dead beat, have very legible, uniform scales and are enclosed in a 9½ in. round pattern iron case which protects them from stray fields.

All Type D Instruments from 80 to 3000 amperes inclusive are furnished with an external shunt known as the Form 3.

These shunts are interchangeable and are made of a special alloy having practically a zero temperature coefficient. The general characteristics of the Form 3 shunt are shown in the accompanying illustration. Shunts of capacities in excess of 1000 amperes are provided with thermo-electric



Form 3 Shunt

For further information refer to the Bulletin on this subject.

AMMETERS

VOLTMETERS

Cat. No.	Amp. Capacity	List Price	Cat. No.	Amp. Capacity	List Price	Cat. No.	Amp. Capacity	List Price	Cat. No.	Volts Capacity	List Price
61450	5	\$45.00	61460	80	\$48.00	61469	600	\$55.00	61479	150	\$53.00
61451	10	45.00	61461	100	48.00	61470	800	57.00	61480	300	58.00
61452	15	45.00	61464	150	49.00	61471	1000	60.00	61481	500	63.00
61453	20	45.00	61466	200	51.00	61476	1500	72.00	61482	750	68.00
61454	30	45.00	61467	300	52.00	61477	2000	81.00			
61458	40	46.00	61468	400	53.00	61478	3000	89.00			
61459	60	46.00									

Instruments listed are back connected for switchboard service. Prices on higher capacities than those listed will be furnished on application. Ammeters are self-contained in capacities up to and including 60 amperes; higher capacities are furnished with necessary external shunts. For further information refer to the Bulletin on this subject.

DIRECT CURRENT INSTRUMENTS

TYPE D 3

Type D 3 direct current instruments differ from the Type D 2 only in the dimensions of the case and other mechanical features resulting therefrom. They are 7 inches in diameter and are especially adapted for use on switchboards in isolated plants or for marine work where a substantially made, highly accurate and at the same time compact, round pattern, direct current, switchboard instrument is desired.

SWITCHBOARD INSTRUMENTS

DIRECT CURRENT INSTRUMENTS—TYPE D 3 (Concluded)

AMMETERS*VOLTMETERS**

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Volts	List Price
49293	5	\$29.00	49300	80	\$31.00	49306	600	\$38.00	49312	150	\$35.00
49294	10	29.00	49301	100	31.00	49307	800	40.00	49313	300	40.00
49295	15	29.00	49302	150	32.00	49308	1000	43.00	49314	500	45.00
49296	20	29.00	49303	200	33.00	49309	1500	55.00	49315	750	50.00
49297	30	29.00	49304	300	35.00	49310	2000	64.00			
49298	40	30.00	49305	400	36.00	49311	3000	72.00			
49299	60	30.00									

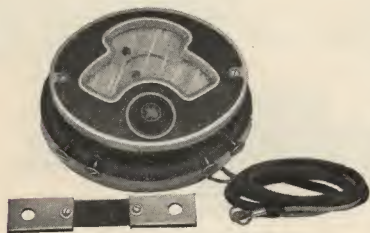
Instruments listed are back connected for switchboard service. Prices on higher capacities than those listed will be furnished on application.

* Ammeters are self-contained in capacities up to and including 60 amperes. Higher capacities are furnished with necessary external shunts. For further information refer to the Bulletin on this subject.

AUTOMOBILE INSTRUMENT**TYPE DK**

The Type DK automobile instrument consists of a combination ammeter and voltmeter enclosed by a dust-proof and moisture-proof aluminum case, and designed to withstand the constant vibration and exposure incident to service on electric vehicles.

Can be furnished with anti-vibration base adapting it for use on commercial trucks. All instruments are furnished with external shunts. Standard capacities listed below. Prices on other capacities on application.



Type DK Automobile Instrument
with Shunt

Cat. No.	* Volts	Amp.	List Price	Cat. No.	* Volts	Amp.	List Price
60297	120	70-0-150	\$66.00	60299	80	150-0-150	\$66.00
60298	120	150-0-150	66.00	60300	80	70-0-150	66.00

* Instrument with extra scale 0-3 volts, **\$5.00** list additional. Bracket with lamp for illuminating dial can be furnished for **\$3.00** list extra. Cushion base adapting instrument for use on commercial trucks **\$6.00** list extra. For further information refer to the Bulletin on this subject.



Type DK Automobile Instrument
with Cushion Base

HORIZONTAL EDGEWISE INSTRUMENTS

All horizontal edgewise instruments are exceedingly accurate and may be relied upon to give long and satisfactory service. The ammeters, voltmeters and wattmeters are interchangeable on direct or alternating current circuits of any frequency.

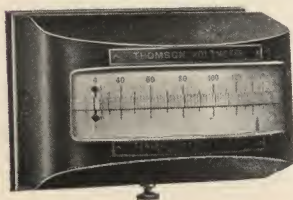
These instruments are made for back connection only. The standard finish is dull black.

AMMETERS

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
28776	5	\$60.00	40634	20	\$60.00	40637	60	\$60.00	51013	150	\$65.00
51007	10	60.00	40635	30	60.00	40638	80	60.00	51014	200	65.00
51140	15	60.00	40636	40	60.00	51012	100	65.00	40639	300	85.00

VOLTMETERS

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
51020	175	\$75.00	40640	500	\$80.00
51021	350	75.00	51022	750	80.00



Orders for instruments intended for use with transformers must always specify the frequency of the circuit on which the instrument is to be used. Ordering by Cat. No. and rating capacity is not sufficient.

SWITCHBOARD INSTRUMENTS

HORIZONTAL EDGEWISE INSTRUMENTS (Continued)

SINGLE-PHASE WATTMETERS

100-125 VOLTS

200-250 VOLTS

500-600 VOLTS

Cat. No.	CAPACITY		List Price	Cat. No.	CAPACITY		List Price	Cat. No.	CAPACITY		List Price
	Amp.	Kilowatts			Amp.	Kilowatts			Amp.	Kilowatts	
28778	5	.5	\$90.00	28780	5	1	\$100.00	28782	5	2.5	\$110.00
28784	10	1	90.00	28786	10	2	100.00	28788	10	5	110.00
51142	15	1.5	90.00	51144	15	3	100.00	51146	15	7.5	110.00
40641	20	2	90.00	40646	20	4	100.00	40651	20	10	110.00
40642	30	3	90.00	40647	30	6	100.00	40652	30	15	110.00
40643	40	4	90.00	40648	40	8	100.00	40653	40	20	110.00
40644	60	6	90.00	40649	60	12	100.00	40654	60	30	110.00
40645	80	8	100.00	40650	80	16	110.00	40655	80	40	120.00
51025	100	10	100.00	51030	100	20	110.00	51035	100	50	120.00
51026	150	15	100.00	51031	150	30	110.00	51036	150	75	120.00
51027	200	20	100.00	51032	200	40	110.00	51037	200	100	120.00

Orders for instruments intended for use with transformers must always specify the frequency of the circuit on which the instrument is to be used. Ordering by Cat. No. and rated capacity is not sufficient.

Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.

For further information refer to the Bulletin on this subject.

POLYPHASE WATTMETERS

FOR THREE-PHASE THREE-WIRE, TWO-PHASE THREE-WIRE AND TWO-PHASE FOUR-WIRE CIRCUITS

100-125 VOLTS

Cat. No.	Amp.	Kilowatts	List Price	Cat. No.	Amp.	Kilowatts	List Price	Cat. No.	Amp.	Kilowatts	List Price
31808	5	1	\$125.00	40656	20	4	\$125.00	40658	40	8	\$125.00
31809	10	2	125.00	40657	30	6	125.00	40659	60	12	125.00
31810	15	3	125.00								

200-250 VOLTS

31813	5	2	\$135.00	40660	20	8	\$135.00	40662	40	16	\$135.00
31814	10	4	135.00	40661	30	12	135.00	40663	60	24	135.00
31815	15	6	135.00								

500-600 VOLTS

31818	5	5	\$145.00	40664	20	20	\$145.00	40666	40	40	\$145.00
31819	10	10	145.00	40665	30	30	145.00	40667	60	60	145.00
31820	15	15	145.00								

Orders for instruments intended for use with transformers must always specify the frequency and the voltage of the circuit on which the instrument is to be used. Ordering by Cat. No. and rated capacity is not sufficient.

Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.

Prices on four-wire three-phase instruments will be furnished on application.

FREQUENCY INDICATORS

Cat. No.	Volts	Cycles	List Price	Cat. No.	Volts	Cycles	List Price	Cat. No.	Volts	Cycles	List Price
51128	100-125	25	\$100.00	51130	100-125	60	\$100.00	51132	100-125	133	\$100.00
51129	100-125	40	100.00	51131	100-125	125	100.00				

Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.

For further information refer to the Bulletin on this subject.

POWER FACTOR INDICATORS

(For Balanced Circuits Only)

This device accurately indicates the power factor of balanced polyphase systems. The convenience of reading a single instrument in comparison with making a computation from the simultaneous readings of an Indicating Wattmeter, Ammeter and Voltmeter, is self-evident.

The instrument is manufactured with scale .60-1.00-.60, showing 60% power factor leading and lagging.

SWITCHBOARD INSTRUMENTS

HORIZONTAL EDGEWISE INSTRUMENTS (Concluded)

POWER FACTOR INDICATORS (Concluded)

THREE-PHASE, THREE-WIRE CIRCUITS

Cat. No.	Amp.	Volts	List Price	Cat. No.	Amp.	Volts	List Price	Cat. No.	Amp.	Volts	List Price
23697	5	100-125	\$90.00	40669	30	100-125	\$100.00	23781	100	100-125	\$110.00
23698	10	100-125	90.00	40670	40	100-125	100.00	23782	150	100-125	110.00
23699	15	100-125	90.00	40671	60	100-125	100.00	23783	200	100-125	110.00
40668	20	100-125	100.00	40672	80	100-125	100.00				

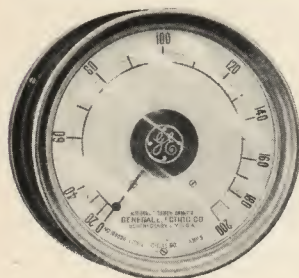
TWO-PHASE, THREE-WIRE CIRCUITS

27513	5	100-125	\$90.00	40674	30	100-125	\$100.00	27519	100	100-125	\$110.00
27514	10	100-125	90.00	40675	40	100-125	100.00	27520	150	100-125	110.00
27515	15	100-125	90.00	40676	60	100-125	100.00	27521	200	100-125	110.00
40673	20	100-125	100.00	40677	80	100-125	100.00				

TWO-PHASE, FOUR-WIRE CIRCUITS

23784	5	100-125	\$90.00	40679	30	100-125	\$100.00	23790	100	100-125	\$110.00
23785	10	100-125	90.00	40680	40	100-125	100.00	23791	150	100-125	110.00
23786	15	100-125	90.00	40681	60	100-125	100.00	23792	200	100-125	110.00
40678	20	100-125	100.00	40682	80	100-125	100.00				

Orders for instruments intended for use with transformers must always specify the frequency and the voltage of the circuit on which the instrument is to be used. Ordering by Cat. No. and rated capacity is not sufficient.
 Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.
 For further information refer to the Bulletin on this subject.



TYPE I INSTRUMENTS

Alternating current, round pattern, switchboard ammeters, voltmeters and polyphase wattmeters, known as Type I instruments, are constructed on the induction principle. They have 300 degree scales and the diameter of the base is approximately 9½ in. They are rendered dead beat by Foucault currents which are generated in the armature disc passing through the air gap of two small permanent magnets. The case is of iron and the indications are therefore practically independent of all ordinary stray fields.

The standard finish is dull black with a polished copper rim around the face of the cover.

AMMETERS

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Volts	List Price
64352	5	\$45.00	64356	30	\$50.00	64360	100	\$55.00	64363	150	\$60.00
64353	10	45.00	64357	40	50.00	64361	150	55.00	64364	350	65.00
64354	15	45.00	64358	60	50.00	64362	200	55.00	64365	500	70.00
64355	20	45.00	64359	80	50.00				64366	750	75.00

The ammeters listed above are self-contained. The voltmeters listed are furnished with external resistances.
 Prices on instruments of higher capacities furnished on application.

VOLTMETERS

POLYPHASE WATTMETERS

3-PHASE 3-WIRE—2-PHASE 3-WIRE AND 2-PHASE 4-WIRE CIRCUITS

100-125 VOLTS

200-250 VOLTS

500-600 VOLTS

Cat. No.	Capacity		List Price	Cat. No.	Capacity		List Price	Cat. No.	Capacity		List Price
	Amp.	Kilowatts			Amp.	Kilowatts			Amp.	Kilowatts	
64614	5	1	\$115.00	64619	5	2	\$125.00	64624	5	5	\$135.00
64615	10	2	115.00	64620	10	4	125.00	64625	10	10	135.00
64616	15	3	115.00	64621	15	6	125.00	64626	15	15	135.00
64617	20	4	115.00	64622	20	8	125.00	64627	20	20	135.00
64618	30	6	115.00	64623	30	12	125.00	64628	30	30	135.00

Wattmeters for voltages above 175 are furnished with external reactive boxes. For circuits above 600 volts and 30 amperes, current and potential transformers are furnished.

SWITCHBOARD INSTRUMENTS

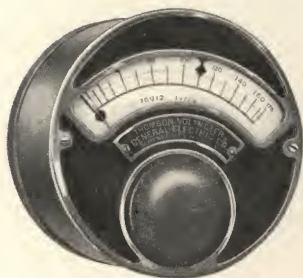
TYPE R

Type R Ammeters and Voltmeters are for use on alternating or direct current circuits, and are furnished in back connected form.

They are accurate, dead-beat and compact, and are shielded from stray field effects.

10 Ampere Type R Ammeters, when desired for use on 6.6 or 7.5 arc circuits, are provided with a scale marker.

Current transformers must be used with Type R Ammeters on circuits having potentials in excess of 2500 volts.



AMMETERS

VOLTMETERS

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Volts	List Price
35756	5	\$30.00	35760	30	\$30.00	35764	100	\$35.00	35776	175	\$35.00
35757	10	30.00	35761	40	30.00	35765	150	35.00	35777	350	40.00
35758	15	30.00	35762	60	35.00	35766	200	35.00	35778	500	45.00
35759	20	30.00	35763	80	35.00				35779	750	50.00

Orders for instruments intended for use with transformers, must always specify the frequency of the circuit on which the instrument is to be used.

Approximate shipping weight: 1 in a box, 22 lbs.; 2 in a box, 55 lbs.; 4 in a box, 85 lbs.

For further information refer to the Bulletin on this subject.

CURVE-DRAWING INSTRUMENTS FOR ALTERNATING AND DIRECT CURRENT CIRCUITS

TYPES C AND C 2

The design of the Curve Drawing Instruments, both mechanically and electrically, is such that the highest possible initial accuracy is obtained. Extremely high torque, which insures continued accuracy, is obtained by careful and correct proportioning of the various elements. While Type C ammeters primarily are designed for alternating current, the instruments can be used with good results on direct current circuits not exceeding 200 amperes or 750 volts capacity.

For further information refer to the Bulletin on this subject.

CURVE-DRAWING INSTRUMENTS—TYPE C

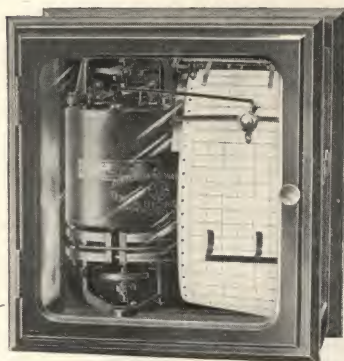
AMMETERS

VOLTMETERS

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Volts	List Price
33672	5	\$155.00	40584	30	\$160.00	33679	100	\$165.00	33669	90-130	\$170.00
33673	10	155.00	40585	40	160.00	33680	150	165.00	33670	180-260	175.00
33674	15	155.00	40586	60	165.00	33681	200	165.00	33671	450-650	180.00
40583	20	160.00	40587	80	165.00						

Approximate shipping weight, 130 lbs.

Approximate shipping weight, 160 lbs.



WATTMETERS FOR DIRECT CURRENT AND SINGLE-PHASE A.C. 100-125 VOLT CIRCUITS

Cat. No.	Amp.	Kilo-watt	List Price	Cat. No.	Amp.	Kilo-watt	List Price	Cat. No.	Amp.	Kilo-watt	List Price
33682	5	.5	\$170.00	40589	30	3	\$175.00	33689	100	10	\$180.00
33683	10	1	170.00	40590	40	4	175.00	33690	150	15	180.00
33684	15	1.5	170.00	40591	60	6	180.00	33691	200	20	180.00
40588	20	2	175.00	40592	80	8	180.00				

Always specify frequency of circuit on which instruments are to be used.

Approximate shipping weight, 160 lbs.

WATTMETERS FOR DIRECT CURRENT AND SINGLE-PHASE A.C. 200-250 VOLT CIRCUITS

Cat. No.	Amp.	Kilowatt	List Price	Cat. No.	Amp.	Kilowatt	List Price	Cat. No.	Amp.	Kilowatt	List Price
33692	5	1	\$175.00	40594	30	6	\$180.00	33699	100	20	\$185.00
33693	10	2	175.00	40595	40	8	180.00	33700	150	30	185.00
33694	15	3	175.00	40596	60	12	185.00	33701	200	40	185.00
40593	20	4	180.00	40597	80	16	185.00				

SWITCHBOARD INSTRUMENTS

CURVE DRAWING INSTRUMENTS TYPE C (Concluded)

WATTMETERS FOR DIRECT CURRENT AND SINGLE-PHASE A.C. 500-600 VOLT CIRCUITS

100-125 VOLTS

200-250 VOLTS

500-600 VOLTS

Cat. No.	Amp.	Kilowatts	List Price	Cat. No.	Amp.	Kilowatts	List Price	Cat. No.	Amp.	Kilowatts	List Price
33702	5	2.5	\$180.00	40599	30	15	\$185.00	33709	100	50	\$190.00
33703	10	5	180.00	40600	40	20	185.00	33710	150	75	190.00
33704	15	7.5	180.00	40601	60	30	190.00	33711	200	100	190.00
40598	20	10	180.00	40602	80	40	100.00				

* POLYPHASE WATTMETERS FOR 100-125 VOLT BALANCED OR UNBALANCED CIRCUITS

33712	5	1	\$225.00	40603	20	4	\$230.00	40605	40	8	\$230.00
33713	10	2	225.00	40604	30	6	230.00	40606	60	12	230.00
33714	15	3	225.00								

* POLYPHASE WATTMETERS FOR 200-250 VOLT BALANCED OR UNBALANCED CIRCUITS

33718	5	2	\$230.00	40607	20	8	\$235.00	40609	40	16	\$235.00
33719	10	4	230.00	40608	30	12	235.00	40610	60	24	235.00
33720	15	6	230.00								

* POLYPHASE WATTMETERS FOR 500-600 VOLT BALANCED OR UNBALANCED CIRCUITS

33724	5	5	\$235.00	40611	20	20	\$240.00	40613	40	40	\$240.00
33725	10	10	235.00	40612	30	30	240.00	40614	60	60	240.00
33726	15	15	235.00								

Always specify frequency of circuit on which instruments are to be used.

Approximate shipping weight: Single-Phase Wattmeters, 160 lbs.; Polyphase Wattmeters, 175 lbs.

* For three-phase three-wire, two-phase three-or four-wire circuits only. Prices on four-wire three-phase instruments will be furnished on application.

POWER FACTOR INDICATORS 100-125 VOLTS FOR THREE-WIRE, THREE-PHASE CIRCUITS

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
60382	5	\$225.00	60388	20	\$235.00	60391	60	\$235.00	60394	150	\$245.00
60383	10	225.00	60389	30	235.00	60392	80	235.00	60395	200	245.00
60384	15	225.00	60390	40	235.00	60393	100	245.00			

POWER FACTOR INDICATORS 100-125 VOLTS FOR THREE-WIRE, TWO-PHASE CIRCUITS

60397	5	\$225.00	60400	20	\$235.00	60403	60	\$235.00	60406	150	\$245.00
60398	10	225.00	60401	30	235.00	60404	80	235.00	60407	200	245.00
60399	15	225.00	60402	40	235.00	60405	100	245.00			

POWER FACTOR INDICATORS 100-125 VOLTS FOR FOUR-WIRE, TWO-PHASE CIRCUITS

60408	5	\$225.00	60411	20	\$235.00	60414	60	\$235.00	60417	150	\$245.00
60409	10	225.00	60412	30	235.00	60415	80	235.00	60418	200	245.00
60410	15	225.00	60413	40	235.00	60416	100	245.00			

Orders for instruments must always specify the frequency of the circuit upon which they are to be used.

CURVE-DRAWING INSTRUMENTS—TYPE C 2

The direct current curve-drawing ammeters Type C 2 are constructed on the astatic principle and are of the electro-magnet type. They are installed in the same case and are of the same general appearance as the Type C Instruments.

† DIRECT CURRENT AMMETERS

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
59899	5	\$260.00	59905	60	\$260.00	59910	300	\$266.00	59915	1500	\$286.00
59900	10	260.00	59906	80	262.00	59911	400	267.00	59916	2000	295.00
59901	15	260.00	59907	100	262.00	59912	600	269.00	59917	3000	303.00
59902	20	260.00	59908	150	263.00	59913	800	271.00	59918	4000	317.00
59903	30	260.00	59909	200	264.00	59914	1000	274.00	59919	6000	363.00
59904	40	260.00									

† In ordering always specify voltage of exciting circuit.

TYPE M SYNCHRONISM INDICATORS

Synchronism Indicators are furnished without receptacles, plugs or brackets, unless otherwise ordered.

Synchronism Indicators can, when desired, be supplied with swinging brackets and lamps for mounting on side of panel, or pivoted brackets and lamps for mounting at the top of panel.

Catalogue numbers will be found below including Indicator with both styles of brackets.

For further information refer to the Bulletin on this subject.

SWITCHBOARD INSTRUMENTS

TYPE M SYNCHRONISM INDICATORS (Concluded)

WITHOUT BRACKETS

100-120 VOLTS

200-240 VOLTS

400-480 VOLTS

500-600 VOLTS

Cat. No.	Cycles	List Price	Cat. No.	Cycles	List Price	Cat. No.	Cycles	List Price	Cat. No.	Cycles	List Price
28900	25	\$90.00	60613	25	\$110.00	60614	25	\$120.00	60615	25	\$130.00
28901	40	90.00	60624	40	110.00	60625	40	120.00	60626	40	130.00
28902	60	90.00	60627	60	110.00	60628	60	120.00	60629	60	130.00



MOUNTED ON PIVOTED
BRACKET WITH LAMP FOR
TOP OF PANELS

MOUNTED ON SWINGING BRACKET WITH LAMPS FOR
SIDE OF PANEL FOR PIPE SUPPORT—100-120 VOLTS

Cat. No.	Cycles	Volts	List Price	Cat. No.	Cycles	Volts	List Price	Cat. No.	Cycles	Volts	List Price
30303	25	100-120	\$100.00	59712	25	100-120	\$111.00	59717	60	200-240	\$133.00
30304	40	100-120	100.00	59713	40	100-120	111.00	59729	60	400-480	148.00
30305	60	100-120	100.00	59714	60	100-120	111.00	59735	60	500-600	158.00

RECEPTACLES

Three styles of plug receptacles are necessary in synchronizing. Cat. No. 13289 is used with grounded secondaries on potential transformers.

With ungrounded secondaries on potential transformers, two receptacles are necessary, Cat. No. 13289 and Cat. No. 29658, as shown below.

For 220-, 440- and 550-volt circuits a six-point receptacle, Cat. No. 60429, is used.

CONNECTION PLUGS




Five styles of connection plugs can be furnished for use in synchronizing. Cat. No. 27368 and Cat. No. 27369 are used with the grounded secondaries on potential transformers.

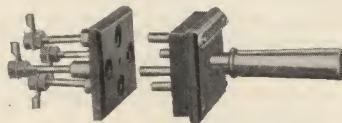
Cat. No. 27368 and Cat. No. 29654 are used with ungrounded secondaries on potential transformers.

Cat. Nos. 59645 and 59646 are used in connection with receptacle Cat. No. 60429 for 240-480 and 600 volt circuits

SYNCHRONIZING PLUG RECEPTACLES

SYNCHRONIZING PLUGS

Cat. No.	Style	List Price
13289		\$1.50
29658		1.50
60429		2.00



Synchronizing Receptacle and Plug

Cat. No.	Style	List Price
27368	Starting	\$2.50
27369	Running	2.50
29654	Running	2.50
59645	Starting	3.50
59646	Running	3.50



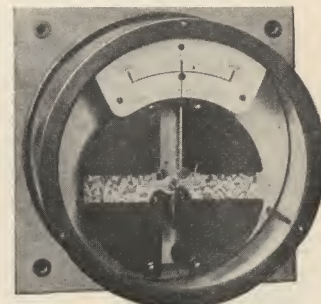
Type E

ELECTROSTATIC GROUND DETECTORS

SINGLE-PHASE

IRON CASE, TYPE E

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
3338	1150	\$50.00	3339	2300	\$60.00



Type E 2

ROUND PATTERN, SHEET METAL CASE, GLASS FRONT TYPE E 2

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
56169	1150	\$100.00	51126	6600	\$105.00
56170	2300	100.00	3341	11000	115.00
51125	3300	100.00			

FINISH

Iron case, single-phase Detectors are finished in our standard dull black finish with raised portions of the cover finished in copper. Round pattern, sheet metal, single-phase Detectors have open glass front with internal and external parts finished in dull black.

Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 62 lbs.; 4 in a box, 125 lbs.

For further information refer to the Bulletin on this subject.

SWITCHBOARD INSTRUMENTS—SWITCHBOARD TRANSFORMERS

ELECTROSTATIC GROUND DETECTORS

THREE-PHASE

ROUND PATTERN IRON CASE, TYPE E 3



Type E 3

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
28791	1150	\$100.00	28793	3300	\$160.00
28792	2300	120.00			

ROUND PATTERN SHEET METAL CASE, TYPE E 4



Type E 4

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
51134	1150	\$240.00	51137	6600	\$270.00
51135	2300	250.00	51138	11000	290.00
51136	3300	260.00			

FINISH

Iron case, three-phase, round pattern Detectors are finished in our standard dull black finish with raised portions of the cover finished in copper. Round pattern, three-phase, sheet metal Detectors have open glass front with internal and external parts finished in dull black.

Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 120 lbs.

For further information refer to the Bulletin on this subject.

CABLE TESTING CURRENT TRANSFORMER

The Cable Testing Current Transformer Set manufactured by the General Electric Company consists of a special Transformer having a hinged magnetic circuit and a Thomson inclined coil portable ammeter.

AMMETER

The Ammeter is of the standard Thomson inclined coil portable form. The instrument is calibrated with its specific transformer and the scale reads in primary values.

TRANSFORMER

The Transformer has been designed with a view to producing an outfit which is convenient and accurate, and is constructed in the most compact form.

Flexible duplex leads 40 feet in length are supplied with each set.

CONNECTIONS AND OPERATION

In conducting a test, the terminals of the duplex leads should be inserted in the ammeter binding posts and the transformer jaws firmly clamped in position around the cable.

USES OF THE TESTING SET

Occasions for using this set will constantly arise in both laboratory and commercial service. In determining the load on feeders and distribution networks, the Cable Testing Current Transformer Set will be found particularly valuable.

WEIGHT

Approximate combined shipping weight of the transformer and ammeter is 45 pounds.

Cat. No.	Amp.	List Price	Cat. No.	Amp.	List Price
33499	125	\$75.00	33500	250	\$75.00

Cat. No. and List Price include the necessary ammeter.

SWITCHBOARD TRANSFORMERS

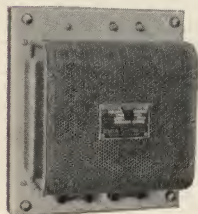
POTENTIAL TRANSFORMERS

TYPE P

A potential transformer will operate a number of instruments, meters, relays, etc., the combined load of which does not exceed its rated watt (volt-ampere) capacity.

The 10 watt potential transformer has sufficient capacity to operate the potential coil of a single instrument. 50 watt transformers must be used for synchronism indicators and for meters of induction type, and 200 watt transformers for curve drawing instruments.

Transformers in capacities up to and including 6600 volts are of the air type. All higher capacities are oil type, and are contained in cast-iron boxes.



100/2200 Volts Primary,
1110/122 Volts Secondary
Air Type Potential
Transformer Mounted
on Marble Base



Oil Type Transformer
13200 Volts (Cat.
No. 27615)

SWITCHBOARD TRANSFORMERS

POTENTIAL TRANSFORMERS—TYPE P

All transformers except Cat. No. 34157 up to and including 4400 volts are mounted on marble base, and have leads brought out to suitable binding posts to facilitate making connections. Cat. No. 34157 is supplied without marble base, but has a porcelain block on top carrying the binding posts.

It is not standard practice to supply transformers in capacities below 5500 volts or above 33,000 volts with fuses. Fuse devices for use with such transformers are mounted separately and are listed in the fuse section.

Cat. No.	Cycles	Watts	VOLTAGE		List Price	Cat. No.	Cycles	Watts	VOLTAGE		List Price
			Primary	Secondary					Primary	Secondary	
3699	60-125	10	1100-2200	110-122	\$35.00	27611	25-60	200	3300	110	\$70.00
33573	25-60	50	330-363-440	110	40.00	48969	25-60	200	4400	110	80.00
33574	25-60	50	550	110	40.00	48970	25-60	200	5500	110	120.00
34155	25-60	50	1100-2200	110-122	60.00	48971	25-60	200	6600	110	130.00
34156	60-125	50	1100-2200	110-122	45.00	27614	25-60	200	11000	110	150.00
* 34157	60-125	50	1100-2200	110-122	35.00	27615	25-60	200	13200	110	150.00
31793	25-60	200	220	110	60.00	33580	25-60	200	22000	110	300.00
33578	25-60	200	330-363-440	110	65.00	27876	25-60	200	26400	110	300.00
27607	25-60	200	550	110	65.00	59806	25-60	200	33000	110	350.00
34158	25-60	200	1100-2200	110-122	65.00						

* Without marble base.

CURRENT TRANSFORMERS



Form F 4



Form E 15



Form D 20

The Forms D 20 and D 21 Transformers are air-insulated. The D 20 Transformers are used on circuits up to and including 7500 volts; D 21 from 7500 to 15000 volts; Form E 15 which is of the bus-bar type is for use on circuits not greater than 6600 volts. The Form F 4 is oil-insulated, and is for use on circuits not exceeding 27,000 volts. The F 10 Current Transformer is also oil-insulated, and is for use on circuits of from 27,000 volts to 35,000 volts.

Current Transformers used with instruments have secondary capacity of 5 amperes. In all cases where Current Transformers are used, the instruments are marked in primary rating. All Current Transformers of standard types may be used interchangeably in connection with from one to three instruments in series, provided the load does not exceed 40 volt amperes. The leads must not exceed twenty-five feet in length.

CIRCUITS UNDER 7500 VOLTS (5 AMP. SECONDARY) FORM D 20

Cat. No.	Continuous Amp. Capacity	Ratio	Approx. Shipping Wt. Lb.	Cat. No.	Continuous Amp. Capacity	Ratio	Approx. Shipping Wt. Lb.	Cat. No.	Continuous Amp. Capacity	Ratio	Approx. Shipping Wt. Lb.
41251	5	1:1	35	41256	40	8:1	35	41261	200	40:1	40
41252	10	2:1	35	41257	60	12:1	35	41262	300	60:1	40
41253	15	3:1	35	41258	80	16:1	35	41263	400	80:1	40
41254	20	4:1	35	41259	100	20:1	35	41264	600	120:1	40
41255	30	6:1	35	41260	150	30:1	40				

CIRCUITS FROM 7500 to 15000 VOLTS (5 AMP. SECONDARY) FORM D 21

41265	5	1:1	70	41270	40	8:1	70	41275	200	40:1	70
41266	10	2:1	70	41271	60	12:1	70	41276	300	60:1	70
41267	15	3:1	70	41272	80	16:1	70	41277	400	80:1	70
41268	20	4:1	70	41273	100	20:1	70	41278	600	120:1	70
41269	30	6:1	70	41274	150	30:1	70				

CIRCUITS FROM 15000 TO 27000 VOLTS (5 AMP. SECONDARY) FORM F 4

41279	5	1:1	250	41283	30	6:1	250	41286	80	16:1	250
41280	10	2:1	250	41284	40	8:1	250	41287	100	20:1	250
41281	15	3:1	250	41285	60	12:1	250	41288	150	30:1	250
41282	20	4:1	250								

CIRCUITS FROM 27000 TO 35000 VOLTS (5 AMP. SECONDARY) FORM F 10

41289	5	1:1	450	41293	30	6:1	450	41296	80	16:1	450
41290	10	2:1	450	41294	40	8:1	450	41297	100	20:1	450
41291	15	3:1	450	41295	60	12:1	450	41298	150	30:1	450
41292	20	4:1	450								

SWITCHBOARD TRANSFORMERS—PORTABLE TRANSFORMERS

CURRENT TRANSFORMERS (Concluded)

CIRCUITS UNDER 7500 VOLTS (5 AMP. SECONDARY) FORM E 15

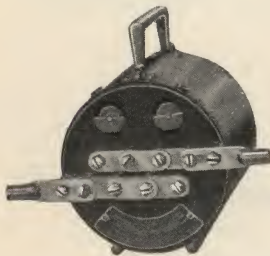
Cat. No.	Continuous Amp. Capacity	Ratio	Approx. Shipping Wt. Lb.	Cat. No.	Continuous Amp. Capacity	Ratio	Approx. Shipping Wt. Lb.	Cat. No.	Continuous Amp. Capacity	Ratio	Approx. Shipping Wt. Lb.
41299	800	160:1	30	41302	2000	400:1	30	41304	4000	800:1	30
41300	1000	200:1	30	41303	3000	600:1	30	41305	6000	1200:1	30
41301	1500	300:1	30								

CIRCUITS UNDER 7500 VOLTS* (FOR C.C. SERVICE) FORM D 24

41249	3.5	1:1	25	41250	7.5	1:1	25	* Normal load—One ammeter.			
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PORTABLE TRANSFORMERS

CURRENT TRANSFORMERS—FORM P AND FORM R



These transformers may be used with portable instruments to increase their capacity or insulate them from line.

Form P transformers leave primaries arranged for series multiple connections. The Form R transformers have no primary winding, ratio being changed by threading the primary cable one or more times through a hole in the core. Both transformers have 5 ampere secondaries, are of 40 watts capacity, and can be used on circuits varying in frequency from 25 to 125 cycles. They are 6 in. in length and 6 1/4 in. in diameter, and weigh approximately 20 pounds. They are enclosed in cylindrical cases with polished mahogany ends and a barrel of burnished brass.



* TYPE S FORM P

* TYPE S FORM R

Cat. No.	Watts	Cycles	AMPERES		Cat. No.	Watts	Cycles	Ratio 1 Turn
			Primary	Secondary				
61547	40	25-125	25-50-100	5	61551	40	25-125	1000:5
61548	40	25-125	50-100-200	5	61552	40	25-125	1000:10

* These transformers may be used on circuits, the potentials of which do not exceed 2500 volts.

AUTOMATIC CIRCUIT BREAKERS

The Type C, Form G circuit breaker meets all the demands for a small, reliable automatic protective device for direct and alternating current systems.

It is amply designed and conservatively rated, is especially adapted for service on motor, lighting and heating circuits, and for use with electrically-driven machinery.

Circuit breakers may be motor, float, solenoid, or hand operated; only the two types last mentioned are listed because of their relatively great popularity. When used in conjunction with suitable auxiliary devices additional protection is afforded in the event of low voltage, high voltage, excessive speed, reversal of current or phase, etc.

By the use of the low voltage release attachment, circuit breakers may be arranged to operate on a drop in or cessation of voltage, two or more circuit breakers may be electrically interlocked and by the use of a switch to short circuit the low voltage release, circuit breakers may be tripped from one or more remote points. This device is also made use of when it is desired to open the breaker by the operation of a speed limiting device, or reverse current relay.

The shunt trip has been designed to provide for conditions under which the low voltage attachment cannot be successfully applied. It trips the breaker when energized, and should be allowed to remain in circuit only momentarily.

CARBON BREAK, TYPE C, FORM G, DIRECT CURRENT (OVERLOAD)

SINGLE-POLE

250 VOLTS

DOUBLE-POLE



CAT. NO.		*Amp. Cap.	CALIBRATION		List Price	CAT. NO.		*Amp. Cap.	CALIBRATION		List Price
Front Connected on Base	Back Connected for 1 1/2 In. or 2 In. Panel		Min.	Max.		Front Connected on Base	Back Connected for 1 1/2 In. or 2 In. Panel		Min.	Max.	
39897	39909	3	1.5	5	\$12.00	39898	39910	3	1.5	5	\$17.00
39901	39913	5	3	8	12.00	39902	39914	5	3	8	17.00
39905	39917	10	5	15	12.00	39906	39918	10	5	15	17.00
35481	35505	15	10	25	12.00	35482	35506	15	10	25	17.00
35485	35509	25	15	40	13.00	35486	35510	25	15	40	18.00
35489	35513	50	25	75	14.00	35490	35514	50	25	75	19.00
35493	35517	100	50	150	17.00	35494	35518	100	50	150	22.00
35497	35521	200	100	300	25.00	35498	35522	200	100	300	40.00
35501	35525	300	200	450	30.00	35502	35526	300	200	450	45.00

AUTOMATIC CIRCUIT BREAKERS

CARBON BREAK, TYPE C, FORM G, DIRECT CURRENT (OVERLOAD)—Continued

500 VOLTS

SINGLE-POLE

DOUBLE POLE

CAT. NO.		Amp. Cap.	CALIBRATION		List Price	CAT. NO.		Amp. Cap.	CALIBRATION		List Price
Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel		Min.	Max.		Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel		Min.	Max.	
39899	39911	3	1.5	5	\$16.00	39900	39912	3	1.5	5	\$21.00
39903	39915	5	3	8	16.00	39904	39916	5	3	8	21.00
39907	39919	10	5	15	16.00	39908	39920	10	5	15	21.00
35483	35507	15	10	25	16.00	35484	35508	15	10	25	21.00
35487	35511	25	15	40	17.00	35488	35512	25	15	40	22.00
35491	35515	50	25	75	18.00	35492	35516	50	25	75	23.00
35495	35519	100	50	150	21.00	35496	35520	100	50	150	25.00
35499	35523	200	100	300	30.00	35498	35524	200	100	300	45.00
35503	35527	300	200	450	35.00	35504	35528	300	200	450	50.00

* Ampere capacity denotes the load in amperes which the breaker will carry continuously without excessive heating.
For nuts and terminals see page 63.

CARBON BREAK, TYPE C, FORM G, DIRECT CURRENT (UNDERLOAD)

250 VOLTS

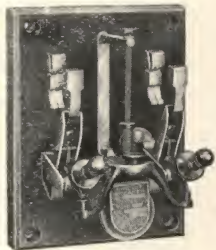
500 VOLTS

SINGLE-POLE

DOUBLE-POLE

SINGLE-POLE

DOUBLE-POLE



CAT. NO.		Amp. Cap.	List Price	CAT. NO.		Amp. Cap.	List Price	CAT. NO.		Amp. Cap.	List Price	CAT. NO.		Amp. Cap.	List Price
Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel			Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel			Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel			Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel		
37491	37515	15	\$14.00	37492	37516	15	\$19.00	37493	37517	15	\$18.00	37494	37518	15	\$23.00
37495	37519	25	15.00	37496	37520	25	20.00	37497	37521	25	19.00	37498	37522	25	24.00
37499	37523	50	16.00	37500	37524	50	21.00	37501	37525	50	20.00	37502	37526	50	25.00
37503	37527	100	19.00	37504	37528	100	24.00	37505	37529	100	23.00	37506	37530	100	27.00
37507	37531	200	28.00	37508	37532	200	44.00	37509	37533	200	33.00	37510	37534	200	49.00
37511	37535	300	33.00	37512	37536	300	49.00	37513	37537	300	38.00	37514	37538	300	54.00

* Ampere capacity denotes the load in amperes which the breaker will carry continuously without excessive heating.
NOTE.—Underload circuit breakers can be set to trip between the minimum limit of 10 per cent. and the maximum limit of 20 per cent. their normal ampere carrying capacity.
For nuts and terminals see page 63.

CARBON BREAK, TYPE C, FORM G, ALTERNATING CURRENT (OVERLOAD)

250 VOLTS

SINGLE-POLE

DOUBLE-POLE



CAT. NO.		Amp. Cap.	CALIBRATION		List Price	CAT. NO.		Amp. Cap.	CALIBRATION		List Price
Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel		Min.	Max.		Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel		Min.	Max.	
43338	43350	3	1.5	5	\$17.00	43339	43351	3	1.5	5	\$22.00
43342	43354	5	3	8	17.00	43343	43355	5	3	8	22.00
43346	43358	10	5	15	17.00	43347	43359	10	5	15	22.00
38142	38166	15	10	25	17.00	38143	38167	15	10	25	22.00
38146	38170	25	15	40	18.00	38147	38171	25	15	40	23.00
38150	38174	50	25	75	19.00	38151	38175	50	25	75	24.00
38154	38178	100	50	150	22.00	38155	38179	100	50	150	27.00
38158	38182	200	100	300	30.00	38159	38183	200	100	300	45.00
38162	38186	300	200	450	35.00	38163	38187	300	200	450	50.00

600 VOLTS

43340	43352	3	1.5	5	\$21.00	43341	43353	3	1.5	5	\$26.00
43344	43356	5	3	8	21.00	43345	43357	5	3	8	26.00
43348	43360	10	5	15	21.00	43349	43361	10	5	15	26.00
38144	38168	15	10	25	21.00	38145	38169	15	10	25	26.00
38148	38172	25	15	40	22.00	38149	38173	25	15	40	27.00
38152	38176	50	25	75	23.00	38153	38177	50	25	75	23.00
38156	38180	100	50	150	26.00	38157	38181	100	50	150	31.00
38160	38184	200	100	300	35.00	38161	38185	200	100	300	50.00
38164	38188	300	200	450	40.00	38165	38189	300	200	450	55.00

* Ampere capacity denotes the load in amperes which the breaker will carry continuously without excessive heating.
For nuts and terminals see page 63.

AUTOMATIC CIRCUIT BREAKERS

CARBON BREAK, TYPE C, FORM G, ALTERNATING CURRENT (OVERLOAD AND LOW VOLTAGE)

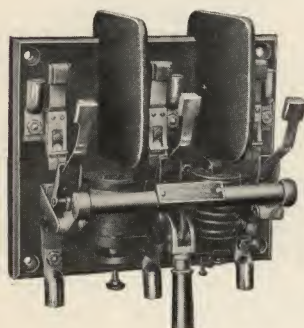
TRIPLE-POLE, 600 VOLTS

ONE OVERLOAD COIL ONLY

TWO OVERLOAD COILS ONLY

CAT. NO.		Amp. Cap.	CALIBRATION		List Price	CAT. NO.		Amp. Cap.	CALIBRATION		List Price
Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel		Min.	Max.		Front Connected on Base	Back Connected for 1½ In. or 2 In. Panel		Min.	Max.	
46271	46280	3	1.5	5	\$40.00	46268	46277	3	1.5	5	\$50.00
46272	46281	5	3	8	40.00	46269	46278	5	3	8	50.00
46273	46282	10	5	15	40.00	46270	46279	10	5	15	50.00
38196	40322	15	10	25	40.00	38190	38214	15	10	25	50.00
38197	40323	25	15	40	40.00	38191	38215	25	15	40	50.00
38198	40324	50	25	75	40.00	38192	38216	50	25	75	50.00
38199	40325	100	50	150	45.00	38193	38217	100	50	150	55.00
38200	40326	200	100	300	75.00	38194	38218	200	100	300	85.00
38201	40327	300	200	450	85.00	38195	38219	300	200	450	95.00

ONE OVERLOAD AND ONE LOW VOLTAGE COIL



CAT. NO.		Amp. Cap.	Min.	Max.	List Price
Front connected on Base	Back connected for 1½ In. or 2 In. Panel				
Cycles	Cycles				
25, 40 and 60	25, 40 and 60				
46274	46283	3	1.5	3	\$60.00
46275	46284	5	3	8	60.00
46276	46285	10	5	15	60.00
38202	38220	15	10	25	60.00
38203	38221	25	15	40	60.00
38204	38222	50	25	75	60.00
38205	38223	100	50	150	65.00
38206	38224	200	100	300	95.00
38207	38225	300	200	450	105.00

Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

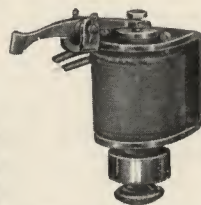
For nuts and terminals see page 63.

CARBON BREAK, TYPE C, FORM G—ATTACHMENTS

ALTERNATING CURRENT

* LOW VOLTAGE RELEASE ATTACHMENTS

Cat. No. Attachment	List Price	Voltage of Circuit	Approx. Releasing Voltage	DESCRIPTION OF CIRCUIT BREAKERS	
				Amp. Capacity	Poles
43378	\$14.00	125	60	3 to 100	Single and Double
43381	16.00	125	60	200 & 300	Single and Double
43379	14.00	250	125	3 to 100	Single and Double
43382	16.00	250	125	200 & 300	Single and Double
43380	14.00	600	300	3 to 100	Single and Double
43383	16.00	600	300	200 & 300	Single and Double



Low Voltage Attachment

DIRECT CURRENT

* LOW VOLTAGE RELEASE ATTACHMENTS

Cat. No. Attachment	List Price	Voltage of Circuit	Approx. Releasing Voltage	FOR CIRCUIT BREAKERS	
				Amp. Capacity	Poles
37539	\$10.00	125	60	3 to 100	Single and Double
37542	12.00	125	60	200 & 300	Single and Double
37540	10.00	250	125	3 to 100	Single and Double
37543	12.00	250	125	200 & 300	Single and Double
37541	10.00	500	250	3 to 100	Single and Double
37544	12.00	500	250	200 & 300	Single and Double

† SHUNT TRIP ATTACHMENTS

Cat. No. Attachment	List Price	Voltage of Circuit	DESCRIPTION OF CIRCUIT BREAKERS	
			Amp. Capacity	Poles
37545	\$8.00	125-250-600	3 to 100	Single and Double
37546	10.00	125-250-600	200 & 300	Single and Double



Shunt Trip Attachment

† SHUNT TRIP ATTACHMENTS

Cat. No. Attachment	List Price	Voltage of Circuit	FOR CIRCUIT BREAKERS	
			Amp. Capacity	Poles
37545	\$8.00	125-250-500	3 to 100	Single and Double
37546	10.00	125-250-500	200 & 300	Single and Double

* Release at one-half rated voltage.

† Should be allowed to remain in circuit only momentarily.

* Release at one-half rated voltage.

† Should be allowed to remain in circuit only momentarily.

AUTOMATIC CIRCUIT BREAKERS **CARBON BREAK, TYPE C, FORM G—ATTACHMENTS** **AUXILIARY SWITCHES**

ALTERNATING CURRENT**DIRECT CURRENT**

CIRCUIT-CLOSING		CIRCUIT-OPENING		COMBINED CIRCUIT OPENING AND CIRCUIT-CLOSING		Amp. Capacity of Circuit Breaker	For Mounting on	CIRCUIT-CLOSING		CIRCUIT-OPENING		COMBINED CIRCUIT-OPENING AND CIRCUIT-CLOSING		Amp. Capacity of Circuit Breaker	For Mounting On
Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price			Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price		
37553	\$5.00	37547	\$5.00	37559	\$8.00	3 to 100	1 1/4" Base	37553	\$5.00	37547	\$5.00	37559	\$8.00	3 to 100	1 1/4" Base
37554	5.00	37548	5.00	37560	8.00	3 to 100	1 1/2" Panel	37554	5.00	37548	5.00	37560	8.00	3 to 100	1 1/2" Panel
37555	5.00	37549	5.00	37561	8.00	3 to 100	2" Panel	37555	5.00	37549	5.00	37561	8.00	3 to 100	2" Panel
37556	5.00	37550	5.00	37562	8.00	200 & 300	1 1/4" Base	37556	5.00	37550	5.00	37562	8.00	200 & 300	1 1/4" Base
37557	5.00	37551	5.00	37563	8.00	200 & 300	1 1/2" Panel	37557	5.00	37551	5.00	37563	8.00	200 & 300	1 1/2" Panel
37558	5.00	37552	5.00	37564	8.00	200 & 300	2" Panel	37558	5.00	37552	5.00	37564	8.00	200 & 300	2" Panel

* Release at one-half rated voltage.

CARBON BREAK, TYPE C, FORM Q, DIRECT CURRENT **SINGLE POLE, 250 VOLTS (OVERLOAD)**



CAT. NO. Front Connected on 1 1/4" Base	*Amp. Capacity	CALIBRATION		List Price
		Min.	Max.	
75337	3	1.5	5	\$6.00
75338	5	3	8	6.00
75339	10	5	15	6.50
75340	15	10	25	6.90
75341	30	15	45	7.50
75342	60	30	90	8.00
75343	100	60	150	8.40

* Ampere capacity denotes the load in amperes which the breaker will carry continuously without excessive heating. For nuts and terminals see page 63.

CARBON BREAK, TYPE C, FORM P, DIRECT CURRENT (OVERLOAD)

Type C Form P circuit breakers are amply designed, conservatively rated and absolutely dependable. They are particularly adapted for service on railway, lighting and power systems.

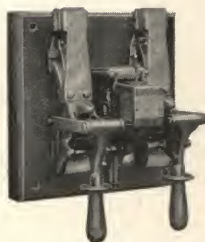
250 VOLTS SINGLE-POLE, BACK CONNECTED**650 VOLTS**

CAT. NO.		†Amp. Cap.	CALIBRATION		List Price	CAT. NO.		†Amp. Cap.	CALIBRATION		List Price
On 1 1/4" Base	For 1 1/2" or 2" Panel		Min.	Max.		On 1 1/4" Base	For 1 1/2" or 2" Panel		Min.	Max.	
36204	36231	15	10	25	\$35.00	36206	36233	15	10	25	\$38.00
36207	36234	25	15	45	35.00	36209	36236	25	15	45	38.00
36210	36237	50	25	75	37.00	36212	36239	50	25	75	40.00
36213	36240	100	50	150	42.00	36215	36242	100	50	150	45.00
36216	36243	200	100	300	50.00	36218	36245	200	100	300	55.00
36219	36246	300	200	450	60.00	36221	36248	300	200	450	65.00
36222	36249	500	300	750	75.00	36224	36251	500	300	750	80.00
*36225	36252	800	500	1200	115.00	*36227	36254	800	500	1200	120.00
*36228	36255	1200	800	1800	150.00	*36230	36257	1200	800	1800	160.00

DOUBLE-POLE, 250 VOLTS, BACK CONNECTED

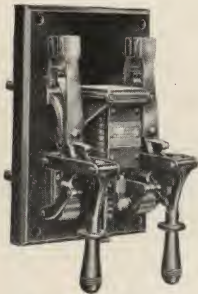
36205	36232	15	10	25	\$52.00	36220	36247	300	200	450	\$90.00
36208	36235	25	15	45	52.00	36223	36250	500	300	750	120.00
36211	36238	50	25	75	55.00	*36226	36253	800	500	1200	200.00
36214	36241	100	50	150	60.00	*36229	36256	1200	800	1800	250.00
36217	36244	200	100	300	70.00						

† Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.
 * Mounted on 1 1/2 inch base.
 For nuts and terminals see page 63.



AUTOMATIC CIRCUIT BREAKERS

CARBON BREAK, TYPE C, FORM P, DIRECT CURRENT (UNDERLOAD)

Double Pole Underload
Circuit Breaker

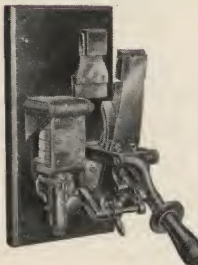
SINGLE-POLE, BACK CONNECTED				DOUBLE-POLE, BACK CONNECTED							
250 VOLTS				650 VOLTS				250 VOLTS			
Cat. No.		Amp. Cap.	List Price	Cat. No.		Amp. Cap.	List Price	Cat. No.		Amp. Cap.	List Price
On 1½" Base	For 1½" or 2" Panel			On 1½" Base	For 1½" or 2" Panel			On 1½" Base	For 1½" or 2" Panel		
42074	42101	15	\$50.00	42076	42103	15	\$53.00	42075	42102	15	\$67.00
42077	42104	25	50.00	42079	42106	25	53.00	42078	42105	25	67.00
42080	42107	50	52.00	42082	42109	50	55.00	42081	42108	50	70.00
42083	42110	100	57.00	42085	42112	100	60.00	42084	42111	100	75.00
42086	42113	200	65.00	42088	42115	200	70.00	42087	42114	200	85.00
42089	42116	300	75.00	42091	42118	300	80.00	42090	42117	300	105.00
42092	42119	500	90.00	42094	42121	500	95.00	42093	42120	500	135.00
*42095	42122	800	140.00	*42097	42124	800	145.00	*42096	42123	800	225.00
*42098	42125	1200	175.00	*42100	42127	1200	185.00	*42099	42126	1200	275.00

* Mounted on 1½ inch base.

NOTE.—Ampere capacity denotes the load that the breakers will carry continuously without excessive heating.
NOTE.—Underload breakers can be set to trip between the minimum limit of 10% and the maximum limit of 20% of their carrying capacity.

For nuts and terminals see page 63.

CARBON BREAK, TYPE C, FORM P, ALTERNATING CURRENT (OVERLOAD)



SINGLE POLE, BACK CONNECTED						DOUBLE-POLE, BACK CONNECTED					
480 VOLTS						650 VOLTS					
Cat. No.		Amp. Cap.	Calibration		List Price	Cat. No.		Amp. Cap.	Calibration		List Price
On 1½" Base	For 1½" or 2" Panel		Min.	Max.		On 1½" Base	For 1½" or 2" Panel		Min.	Max.	
40877	40904	15	10	25	\$40.00	40879	40906	15	10	25	\$44.00
40880	40907	25	15	45	40.00	40882	40909	25	15	45	44.00
40883	40910	50	25	75	44.00	40885	40912	50	25	75	48.00
40886	40913	100	50	150	50.00	40888	40915	100	50	150	55.00
40889	40916	200	100	300	60.00	40891	40918	200	100	300	65.00
40892	40919	300	200	450	70.00	40894	40921	300	200	450	75.00
40895	40922	500	300	750	90.00	40897	40924	500	300	750	95.00
*40898	*40925	800	500	1200	140.00	*40900	*40927	800	500	1200	145.00
*40901	*40928	1200	800	1800	180.00	*40903	*40930	1200	800	1800	185.00
	†40931	800	500	1200	140.00		†40933	800	500	1200	145.00
	†40934	1200	800	1800	180.00		†40936	1200	800	1800	185.00
40878	40905	15	10	25	\$70.00	40896	40923	500	300	750	\$140.00
40881	40908	25	15	45	70.00	*40899	*40926	800	500	1200	230.00
40884	40911	50	25	75	75.00	*40902	*40929	1200	800	1800	280.00
40887	40914	100	50	150	80.00		†40932	800	500	1200	230.00
40890	40917	200	100	300	90.00		†40935	1200	800	1800	280.00
40893	40920	300	200	450	110.00						

* For mounting on 1½ inch base or panel only.

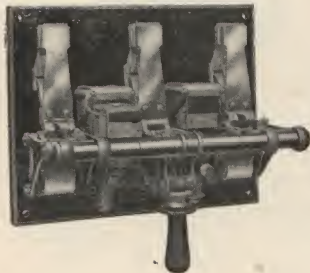
† For mounting on 2 inch panel only.

NOTE.—Ampere capacity denotes the load that the breaker will carry continuously without excessive heating.
For nuts and terminals see page 63.

AUTOMATIC CIRCUIT BREAKERS

CARBON BREAK, TYPE C, FORM P, ALTERNATING CURRENT (OVERLOAD)

TRIPLE-POLE, 480 VOLTS, TWO OVERLOAD COILS ONLY, BACK CONNECTED



CAT. NO.		Amp. Cap.	CALIBRATION		List Price	CAT. NO.		Amp. Cap.	CALIBRATION		List Price
On 1½" Base	For 1½" or 2" Panel		Min.	Max.		On 1½" Base	For 1½" or 2" Panel		Min.	Max.	
60655	60782	15	10	25	\$150.00	60660	60787	300	200	450	\$190.00
60656	60783	25	15	45	150.00	60661	60788	500	300	750	220.00
60657	60784	50	25	75	155.00	*60662	*60789	800	500	1200	310.00
60658	60785	100	50	150	160.00	*60663	*60790	1200	800	1800	360.00
60659	60786	200	100	300	170.00		†62345	800	500	1200	310.00
							†62346	1200	800	1800	360.00

TRIPLE-POLE, 650 VOLTS, TWO OVERLOAD COILS ONLY, BACK CONNECTED

60664	60791	15	10	25	\$160.00	60778	60796	300	200	450	\$200.00
60665	60792	25	15	45	160.00	60779	60797	500	300	750	230.00
60668	60793	50	25	75	165.00	*60780	*60798	800	500	1200	320.00
60776	60794	100	50	150	170.00	*60781	*60799	1200	800	1800	370.00
60777	60795	200	100	300	180.00		†62347	800	500	1200	320.00
							†62348	1200	800	1800	370.00

* For mounting on 1½ inch base or panel only.

† For mounting on 2 inch panel only.

NOTE.—Ampere capacity denotes the load that the breaker will carry continuously without excessive heating.

For nuts and terminals see page 63.

CARBON BREAK, TYPE C, FORM P (OVERLOAD)—ATTACHMENTS

DIRECT CURRENT

ALTERNATING CURRENT

† SHUNT TRIP ATTACHMENT

Cat. No. Attachment	List Price	Voltage of Circuit	DESCRIPTION OF CIRCUIT BREAKER		Cat. No. Attachment	List Price	Voltage of Circuit	DESCRIPTION OF CIRCUIT BREAKER	
			Ampere Capacity	Poles				Ampere Capacity	Poles
36267	\$12.00	125-250-650	15 to 500	Single- and Double-Pole	36267	\$12.00	125-250-650	15 to 500	S., D. and Triple
36269	12.00	125-250-650	800 & 1200	Single-Pole	36268	12.00	125-250-650	800 and 1200	Double and Triple
36268	12.00	125-250-650	800 & 1200	Double-Pole	43371	12.00	125-250-650	800 and 1200	Single

* LOW VOLTAGE RELEASE ATTACHMENTS

Cat. No. Attachment	List Price	Voltage of Circuit	Ap-prox. Re-leasing Voltage	DESCRIPTION OF CIRCUIT BREAKER		Cat. No. Attachment	List Price	Voltage of Circuit	Ap-prox. Re-leasing Voltage	DESCRIPTION OF CIRCUIT BREAKER	
				Ampere Capacity	Poles					Ampere Capacity	Poles
36258	\$16.00	125	60	15 to 500	Single- and Double-Pole	43362	\$20.00	125	60	15 to 500	S., D. and Triple
36264	16.00	125	60	800 & 1200	Single-Pole	43363	20.00	250	125	15 to 500	S., D. and Triple
36261	16.00	125	60	800 & 1200	Double-Pole	43364	20.00	650	325	15 to 500	S., D. and Triple
36259	16.00	250	125	15 to 500	Single- and Double-Pole	43365	20.00	125	60	800 and 1200	Double and Triple
36265	16.00	250	125	800 & 1200	Single-Pole	43366	20.00	250	125	800 and 1200	Double and Triple
36262	16.00	250	125	800 & 1200	Double-Pole	43367	20.00	650	325	800 and 1200	Double and Triple
36260	16.00	650	325	15 to 500	Single-Pole	43368	20.00	125	60	800 and 1200	Single
36266	16.00	650	325	800 & 1200	Single-Pole	43369	20.00	250	125	800 and 1200	Single
						43370	20.00	650	325	800 and 1200	Single

† Should be allowed to remain in circuit only momentarily.

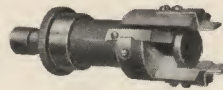
* Release at approximately one-half rated voltage.

AUTOMATIC CIRCUIT BREAKERS

CARBON BREAK, TYPE C, FORM P, DIRECT AND ALTERNATING CURRENT AUXILIARY SWITCHES



Circuit-Closing Aux-
iliary Switch



Combined Circuit-Closing
and Circuit-Opening
Auxiliary Switch



Circuit-Opening Aux-
iliary Switch

Circuit-Closing		Circuit-Opening		Combined Circuit-Closing and Circuit-Opening		Ampere Capacity of Circuit Breaker	For Mounting on	Circuit-Closing		Circuit-Opening		Combined Circuit-Closing and Circuit-Opening		Ampere Capacity of Circuit Breaker	For Mounting on
Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price			Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price		
36270	\$6.00	36278	\$6.00	36286	\$11.00	15 to 200	Base (1 1/2" thick)	36275	\$6.00	36283	\$6.00	36291	\$11.00	300 & 500	2" Panel
36271	6.00	36279	6.00	36287	11.00	15 to 200	1 1/2" Panel	*36276	6.00	*36284	6.00	*36292	11.00	800 & 1200	1 1/2" Panel
36272	6.00	36280	6.00	36288	11.00	15 to 200	2" Panel	*36277	6.00	*36285	6.00	*36293	11.00	800 & 1200	2" Panel
36273	6.00	36281	6.00	36289	11.00	300 & 500	Base (1 1/2" thick)	†43372	6.00	†43374	6.00	†43376	11.00	800 & 1200	1 1/2" Panel
36274	6.00	36282	6.00	36290	11.00	300 & 500	1 1/2" Panel	†43373	6.00	†43375	6.00	†43377	11.00	800 & 1200	2" Panel

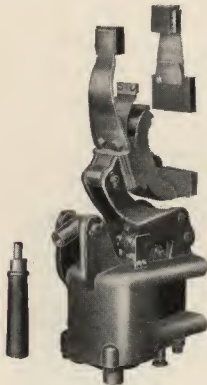
* For D.C. only.

† For A.C. only.

SOLENOID-OPERATED (OVERLOAD)—SINGLE-POLE, BACK CONNECTED

DIRECT CURRENT, 650
VOLTS AND UNDER

PULL BUTTON CONTROL
SWITCHES COMPLETE
WITH LAMPS AND
RESISTANCES



CAT. NO.	For Mounting on 2" Panel	Amp. Cap.	CALIBRATION		List Price	Prices on Alternating Current Breakers on Request	Cat. No.	Description	List Price
			Min.	Max.					
49056		100	50	150	\$156.00				
49057		200	100	300	165.00				
49058		300	200	450	180.00				
49059		500	300	750	194.00				
49060		800	500	1200	245.00				
49061		1200	800	1800	285.00				
							62557	For 125 Volt Service	\$14.00
							62558	For 250 Volt Service	24.00
							62559	For 600 Volt Service	25.00

* Ampere capacity denotes the load which the breaker will carry continuously without excessive heating. For nuts and terminals see page 63.

CARBON BREAK, TYPE C, FORM K—BACK CONNECTED

The Type C, Form K circuit breakers are especially designed for heavy duty and are particularly suited to use in connection with railway systems and similar service. They are made single pole only.

DIRECT CURRENT OVERLOAD



250 VOLTS						650 VOLTS					
Mounted on Base	For Mounting on 2" Panel	Amp. Cap.	CALIBRATION		List Price	Mounted on Base	For Mounting on 2" Panel	Amp. Cap.	CALIBRATION		List Price
			Min.	Max.					Min.	Max.	
29617	28921	2000	1200	4000	\$225.00	29619	28925	2000	1200	4000	\$260.00
	28922	4000	2000	10000	400.00		28926	4000	2000	10000	450.00
	*28923	6000	2000	15000	650.00		*28927	6000	2000	15000	775.00
							†28928	8000	2000	20000	950.00
							†28929	10000	2000	25000	1500.00

ALTERNATING CURRENT OVERLOAD

480 VOLTS						650 VOLTS					
40871	40872 40875	2000 4000	1200 2000	4000 10000	List Price	40873	40874 40876	2000 4000	4000 10000	1200 2000	List Price
					\$300.00 500.00						\$335.00 550.00

* For mounting on 2" or 2 1/2" panel.

† For mounting on 2 1/2" panel only.

NOTE—Ampere capacity denotes the load which the breaker will carry continuously without excessive heating. For nuts and terminals see page 63.

AUTOMATIC CIRCUIT BREAKERS **CARBON BREAK, TYPE C, FORM K (Continued)** **ATTACHMENTS FOR 250 AND 650 VOLTS, DIRECT CURRENT**

* LOW VOLTAGE RELEASE ATTACHMENTS

Cat. No. of Attachment	List Price	Voltage of Circuit	Approx. Releasing Voltage	CIRCUIT BREAKER CAPACITY		Cat. No. of Attachment	List Price	Voltage of Circuit	Approx. Releasing Voltage	CIRCUIT BREAKER CAPACITY	
				Amp.	Volts					Amp.	Volts
32466	\$16.00	125	60	2000	250 or 650	32471	\$16.00	250	125	6000	250 or 650
32469	16.00	125	60	4000	250 or 650	32474	16.00	250	125	8000 or 10000	650
32472	16.00	125	60	6000	250 or 650	32464	16.00	650	325	2000	650
32475	16.00	125	60	8000 or 10000	650	32467	16.00	650	325	4000	650
32465	16.00	250	125	2000	250 or 650	32470	16.00	650	325	6000	650
32468	16.00	250	125	4000	250 or 650	32473	16.00	650	325	8000 or 10000	650

† SHUNT TRIP ATTACHMENTS

Cat. No. of Attachment	List Price	Voltage of Circuit	CIRCUIT BREAKER CAPACITY		Cat. No. of Attachment	List Price	Voltage of Circuit	CIRCUIT BREAKER CAPACITY	
			Amp.	Volts				Amp.	Volts
32456	\$12.00	125-250-650	2000	250 or 650	32458	\$12.00	125-250-650	6000	250 or 650
32457	12.00	125-250-650	4000	250 or 650	32459	12.00	125-250-650	8000 or 10000	650

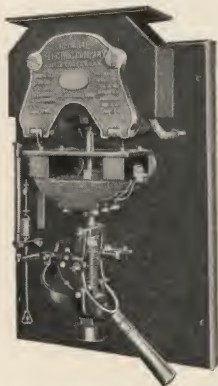
AUXILIARY SWITCHES

CIRCUIT CLOSING		CIRCUIT OPENING		COMBINED CIRCUIT OPENING AND CIRCUIT CLOSING		CIRCUIT BREAKER CAPACITY		For Mounting On
Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Amp.	Volts	
32496	\$6.00	32484	\$6.00	32508	\$11.00	2000	250	2" Panel
32497	6.00	32485	6.00	32509	11.00	4000	250	2" Panel
32498	6.00	32486	6.00	32510	11.00	6000	250	2" Panel
32502	6.00	32490	6.00	32514	11.00	6000	250	2½" Panel
32492	6.00	32480	6.00	32504	11.00	2000	650	2" Panel
32493	6.00	32481	6.00	32505	11.00	4000	650	2" Panel
32494	6.00	32482	6.00	32506	11.00	6000	650	2" Panel
32499	6.00	32487	6.00	32511	11.00	6000	650	2½" Panel
32500	6.00	32488	6.00	32512	11.00	8000	650	2½" Panel
32501	6.05	32489	6.00	32513	11.00	10000	650	2½" Panel

* Release at approximately one-half rated voltage.

† Should be allowed to remain in circuit only momentarily.

Prices on attachments for A.C. Type C, Form K circuit breakers on application.

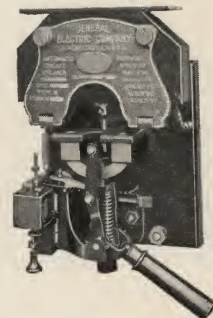


Form K 3 Circuit Breaker,
Cat. No. 23844

TYPE M, MAGNETIC BLOWOUT

600 VOLTS DIRECT CURRENT, FORMS K AND K 3,
150 TO 10,000 AMPERES

Type M circuit breakers are used generally only where it is necessary to confine the direction of the arc. They are designed for large currents, and are especially intended for severe service. All Forms K and K 3 circuit breakers are equipped with a hinged front pole-piece, which readily permits of the removal and replacement of the pole-piece when it is found necessary to clean or repair the secondary contacts. Terminals or nuts for back connected breakers of this form are not supplied nor are they included in the price of complete breaker. These should always be ordered separately by catalogue numbers, table of which will be found on page 63.



Form K Circuit Breaker,
With Low Voltage Release
And Tell-Tale Switch

AUTOMATIC CIRCUIT BREAKERS

TYPE M, MAGNETIC BLOWOUT (Continued)

600 VOLTS DIRECT CURRENT

FORM K

CAT. NO.		Amp. Cap.	CALIBRA- TION		Style of Handle	Ap- prox. Ship- ping Wt. Lb.	List Price	CAT. NO.		Amp. Cap.	CALIBRA- TION		Style of Handle	Ap- prox. Ship- ping Wt. Lb.	List Price
Front Con- nected	Back Con- nected		Min.	Max.				Front Con- nected	Back Con- nected		Min.	Max.			
26732	26741	300	150	600	Locking Handle	220	\$190.00	26729	26737	500	300	800	Fixed Handle	225	\$200.00
26733	26742	500	300	800	Locking Handle	225	210.00	26730	26738	800	500	1200	Fixed Handle	240	200.00
26734	26743	800	500	1200	Locking Handle	240	210.00	26731	26739	1200	800	2000	Fixed Handle	250	200.00
26735	26744	1200	800	2000	Locking Handle	250	210.00		26740	2000	1200	3000	Fixed Handle	350	275.00
26728	26736	300	150	600	Fixed Handle	220	180.00								

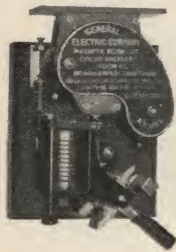
FORM K 3

23840	3000	2000	10000	Fixed Handle	554	450.00	23843	8000	2000	20000	Fixed Handle	575	1000.00
23841	4000	2000	12000	Fixed Handle	560	600.00	23844	10000	2500	25000	Fixed Handle	600	1500.00
26745	6000	2000	18000	Fixed Handle	563	800.00							

For nuts and terminals see page 63.

FORM L 2, 100 TO 800 AMPERES

The Form L 2 circuit breaker is intended for use in small power plants where the conditions are not severe and where a breaker cheaper than the Type M, Form K, is desired. In large plants where severe conditions have to be met its use is not recommended.



CAT. NO.		Amp. Cap.	CALIBRATION		Style of Handle	APPROXIMATE SHIPPING WEIGHT, LB.		List Price
Front Connected	Back Connected		Min.	Max.		Front Connected	Back Connected	
23845	23847	500	100	800	Fixed Handle	102	105	\$80.00
23846	23848	800	200	1200	Fixed Handle	104	107	90.00
23849	11309	500	100	800	Locking Handle	102	105	80.00
23850	11310	800	200	1200	Locking Handle	104	107	90.00

For nuts and terminals see page 63.

LOW VOLTAGE RELEASE COILS

FOR FORM L 2 CIRCUIT BREAKERS, 600 VOLTS

Cat. No.	Voltage of Circuit	Approx. Tripping Voltage	List Price	FOR CIRCUIT BREAKER		Cat. No.	Voltage of Circuit	Approx. Tripping Voltage	List Price	FOR CIRCUIT BREAKER	
				Amp. Cap.	Description					Amp. Cap.	Description
27796	550	270	\$18.00	500	Back & Front Con't'd	27798	125	60	\$16.00	500 to	Back & Front Con't'd
27797	250	125	16.50	to 800	Back & Front Con't'd					800	

FOR FORM K CIRCUIT BREAKERS, 600 VOLTS

27790	550	270	\$18.50	300	Back Connected	27793	550	270	\$20.00	300	Front Connected
27791	250	125	17.00	to	Back Connected	27794	250	125	18.50	to	Front Connected
27792	125	60	16.50	2000	Back Connected	27795	125	60	18.00	1200	Front Connected

FOR FORM K 3 CIRCUIT BREAKERS, 600 VOLTS

30603	550	270	\$18.50	3000	Back Connected	30606	550	270	\$20.00	6000	Back Connected
30604	250	125	17.00	to	Back Connected	30607	250	125	18.50	to	Back Connected
30605	125	60	16.50	4000	Back Connected	30608	125	60	18.00	10000	Back Connected

AUTOMATIC CIRCUIT BREAKERS

TYPE M MAGNETIC BLOWOUT (Concluded)

AUXILIARY SWITCHES (CIRCUIT CLOSING) FOR TYPE M CIRCUIT BREAKERS

Cat. No.	List Price	FOR CIRCUIT BREAKER	
		Type	Ampere Capacity
27785	\$10.00	K	300 to 2000
27786	10.00	K-3	3000 to 4000
27787	10.00	K-3	6000 to 10000

NUTS AND TERMINALS FOR TYPE C AND TYPE M CIRCUIT BREAKERS

All circuit breakers of capacities up to and including 100 amperes are furnished with two nuts and one terminal on each stud; up to and including 1200 amperes, breakers are furnished with two nuts per stud, and one terminal on each upper stud only. Above 1200 amperes, two nuts per stud are supplied, and no terminals.

If the conditions are such that the arrangement of nuts and terminals given will not meet the requirements, prices will be quoted on request.

NUTS FOR TYPE M, FORMS K AND K 3 CIRCUIT BREAKERS

NUTS FOR TYPE C, FORM K CIRCUIT BREAKERS 250 OR 650 VOLTS

Cat. No.	List Price per 100	Thick-ness Ins.	Diam. Across Flats Ins.	Diam. of Stud Ins.	Shape	No. per Stud	Amp. Cap. of Circuit Breaker	Cat. No.	List Price per 100	Thick-ness Ins.	Diam. Across Flats Ins.	Diam. of Stud Ins.	Shape	No. per Stud	Amp. Cap. of Circuit Breaker
26965	\$186.00	1	3	1½	Hex.	1	2000	26972	\$230.00	1	3	1½	Hex.	1	2000
26966	122.50	1	3½	2½	Hex.	2	3000	26974	460.00	1	3½	2½	Hex.	2	4000
26967	360.00	1	3¾	2¾	Hex.	2	4000	26968	400.00	1	4	3½	Oct.	3	6000
26968	400.00	1	4	3½	Oct.	3	6000	26969	590.00	1	5	4	Oct.	5	8000
26969	590.00	1	5	4	Oct.	5	8000	31745	670.00	1	6	4½	Oct.	6	10000
26970	506.50	1	6	4½	Oct.	7	10000								

NOTE—The number of nuts per stud given in the above tables is in addition to the two that are supplied with the breaker. In the table the 2000/10000 ampere capacity circuit breakers have their terminals marked "Special" as we seldom use terminals on this capacity. If terminals are required they can be furnished "Special" if full information is given.

TERMINALS FOR TYPE M, FORMS K AND K 3 CIRCUIT BREAKERS, 650 VOLTS

Cat. No.	Quantity per Stud	List Price per 100	No. and Size of Cable (Circular Mills)	Size of Cable Hole (Inches)	Amp. Cap. of Circuit Breaker	Cat. No.	Quantity per Stud	List Price per 100	No. and Size of Cable (Circular Mills)	Size of Cable Hole (Inches)	Amp. Cap. of Circuit Breaker
26797	2	\$700.00	2-1,500,000	1½	2000	26948	2	\$750.00	3-2,000,000	1½	4000
26798	1	725.00	3-1,500,000	1½	3000	26950	4	1270.00	4-2,000,000	1	6000
26799	2	700.00	3-2,000,000	1½	4000	26952	6	800.00	6-2,000,000	1	8000
26949	1	750.00							Special		10000

NOTE—Unless the diameter of the cable hole is specifically given in inches, terminals will be drilled to fit cable mentioned in above lists. Terminals will not take larger cable than specified. Terminals cannot be interchanged, as the size of studs varies on different breakers.

TERMINALS FOR TYPE C, FORM K CIRCUIT BREAKERS, 250 OR 650 VOLTS

Cat. No.	Quantity per Stud	List Price per 100	No. and Size of Cable (Circular Mills)	Size of Cable Hole (Inches)	Amp. Cap. of Circuit Breaker	Cat. No.	Quantity per Stud	List Price per 100	No. and Size of Cable (Circular Mills)	Size of Cable Hole (Inches)	Amp. Cap. of Circuit Breaker
27448	2	\$1150.00	2-1,500,000	1½	2000	26950	4	\$1270.00	4-2,000,000	1½	6000
27453	1	1160.00	3-2,000,000	1½	4000	26952	6	800.00	6-2,000,000	1½	8000
27452	2								Special		10000

TRANSFORMERS

TYPE H, 60 CYCLE TRANSFORMERS, POLE TYPE

Two standard lines of Type H Transformers known as Type H and Type HB are manufactured by the General Electric Company.

The transformers listed as Type H have slightly lower core losses than those known as Type HB, and should be used except where fuel is cheap or water power is available and the stations are operated twelve hours daily, or where the first cost is the ruling consideration.

SINGLE-PHASE—PRIMARY VOLTAGE 1100/2200

FREQUENCY LIMITS, 50-140; NORMAL FREQUENCY, 60 CYCLES



Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price	Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price
	Primary Volts 1100/2200						Primary Volts 1100/2200				
	Secondary Volts						Secondary Volts				
	110/220	122/244					110/220	122/244			
600	24041	24036	105	2.5	Prices on application	7500	4133	4173	445	25	Prices on application
1000	24042	24037	115	2.5		10000	4135	4176	495	25	
1500	24043	24038	180	5.5		15000	4137	4179	865	54	
2000	24044	24039	185	5.5		20000	4139	4182	955	54	
2500	24045	24040	220	7.5		25000	4141	4185	1245	92	
3000	4125	4161	225	7.5		30000	4143	4188	1290	92	
4000	4127	4164	230	15		40000	4025	4026	1665	150	
5000	4129	4167	360	15		50000	4095	4096	1700	150	

All of the above transformers may be used on three-wire service.

Transformers for 1100 or 2200 volt service have porcelain connection boards for the primary coils, by means of which they may be adapted for either circuit. The secondary voltage may be changed by connections of the secondary leads outside of the transformers. Prices include oil, boxing, two primary fuse boxes, Cat. No. 51874, and transformer hanging hooks. If operated on 1100 volts the 40 and 50 kw. sizes should be provided with fuse boxes, Cat. No. 5696, which should be specially ordered.

SINGLE-PHASE—PRIMARY VOLTAGE, 1200/2400

FREQUENCY LIMITS, 50-140; NORMAL FREQUENCY, 60 CYCLES

Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price	Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price		
	Primary Volts 1200/2400												
	Sec. Volts 120/240												
600	24000	105	2.5	Prices on application	7500	24008	445	25	Prices on application				
1000	24001	115	2.5		10000	24009	495	25					
1500	24002	180	5.5		15000	24010	865	54					
2000	24003	185	5.5		20000	24011	955	54					
2500	24004	220	7.5		25000	24012	1245	92					
3000	24005	225	7.5		30000	24013	1390	92					
4000	24006	330	15		40000	24014	1665	150					
5000	24007	360	15		50000	24015	1700	150					

All the above transformers may be used on three-wire service.

SINGLE-PHASE—PRIMARY VOLTAGE, 1650/3300

FREQUENCY LIMITS, 50-140; NORMAL FREQUENCY, 60 CYCLES

Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price	Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price
	Primary Volts 1650/3300						Primary Volts 1650/3300				
	Secondary Volts						Secondary Volts				
	122	122/244					122/244	122/244			
600	3750		102	3.5	Prices on application	7500	3758		490	18.5	Prices on application
1000	3751		117	4.5		10000	3759		670	25	
1500	3752		150	5.5		15000	3760		760	57	
2000	3753		190	7.5		20000	3761		1010	75	
2500	3754		215	6.5		25000	3762		1130	85	
3000		3755	285	12		30000	3763		1235	80	
4000		3756	310	10.5		40000	3764		1410	96	
5000		3757	335	13		50000	3765		1670	112	

All transformers with 122/241 volt secondaries may be used on three-wire service.

Transformers for 1200 or 2400 volt service and those for 1650 or 3300 volt service have porcelain connection boards for primary coils by means of which they may be adapted for either circuit. The secondary voltage of transformers wound for 120/240 or 122/244 volts, may be changed by connections of the secondary leads outside of the transformers. Prices include oil, boxing, two primary fuse boxes, Cat. No. 51874, and transformer hanging hooks. If operated on 1200 volts, the 40 and 50 kw. sizes should be provided with fuse boxes, Cat. No. 5696, which should be specially ordered.

TRANSFORMERS

*TYPE H, 60 CYCLE TRANSFORMERS, POLE TYPE (Continued)

SINGLE-PHASE—PRIMARY VOLTAGE, 1100/2200
FREQUENCY LIMITS, 50-140; NORMAL FREQUENCY, 60 CYCLES

Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price	Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price
	Primary Volts 1100/2200						Primary Volts 1100/2200				
	Secondary Volts						Secondary Volts				
	244/488	608					244/488	608			
600	31450	30461	102	3.5	Prices on application	7500	31458	30469	490	18.5	Prices on application
1000	31451	30462	117	4.5		10000	31459	30470	670	25	
1500	31452	30463	150	5.5		15000	31460	30471	760	57	
2000	31453	30464	190	7.5		20000	31461	30472	1010	75	
2500	31454	30465	215	6.5		25000	31462	30473	1165	85	
3000	31455	30466	220	6.5		30000	31463	30474	1235	80	
4000	31456	30467	295	12		40000	31464	30525	1410	96	
5000	31457	30468	330	13	50000	31465	30526	1670	112		

All transformers 244/488 volt secondaries may be used on three-wire service.

Transformers for 1100 or 2200 volt service have porcelain connection boards for the primary coils, by means of which they may be adapted for either circuit. The secondary voltage may be changed by connections of the secondary leads outside of the transformers. Prices include oil, boxing, two primary fuse boxes, Cat. No. 51874; and transformer hanging hooks. If operated on 1100 volts, the 40 and 50 kw. sizes should be provided with fuse boxes, Cat. No. 5696, which should be specially ordered.

SINGLE-PHASE—PRIMARY VOLTAGE, 550
FREQUENCY LIMITS, 50-140; NORMAL FREQUENCY, 60 CYCLES

Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price	Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price
	Primary Volts 550						Primary Volts 550				
	Sec. Volts 110/220						Sec. Volts 110/220				
600	76743	102	3.5	Prices on application	7500	76751	490	18.5	Prices on application		
1000	76744	117	4.5		10000	76752	670	25			
1500	76745	150	5.5		15000	76753	760	57			
2000	76746	190	7.5		20000	76754	1010	75			
2500	76747	215	6.5		25000	76755	1165	85			
3000	76748	220	6.5		30000	76756	1235	80			
4000	76749	295	12		40000	76757	1410	96			
5000	76750	330	13		50000	76758	1670	112			

Transformers for 550 volt service have only one primary voltage. The secondary voltage may be changed by connection of the secondary leads outside of the transformers. Prices include oil, boxing, transformer hanging hooks, and two fuse boxes, Cat. No. 51874, except sizes 20 to 50 kw. inclusive, which will be furnished with Cat. No. 5696 fuse boxes without additional charge.

*TYPE HB, 60 CYCLE TRANSFORMERS

The Type HB Transformers listed in the following table have higher core losses than the Type H Transformers listed on page 64.

SINGLE-PHASE—PRIMARY VOLTAGE, 1100/2200
FREQUENCY LIMITS, 60-140; NORMAL FREQUENCY, 60 CYCLES

Watts	CAT. NO.	Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price	Watts	CAT. NO.	Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price
	Primary Volts 1100/2200					Primary Volts 1100/2200			
	Sec. Volts 110/220					Sec. Volts 110/220			
600	43678	100	2.5	Prices on application	7500	3708	360	15	Prices on application
1000	43679	105	2.5		10000	3709	445	25	
1500	43680	115	2.5		15000	3710	500	25	
2000	43681	185	5.5		20000	3711	875	54	
2500	43682	190	5.5		25000	3712	955	54	
3000	3716	220	7.5		30000	3713	1240	92	
4000	3705	230	7.5		40000	35271	1390	92	
5000	3706	325	15		50000	35272	1685	150	

All transformers with 110 or 220 volt secondaries may be used for three-wire service.

These transformers have porcelain connection boards for the primary coils, by means of which they may be adapted to either 1100 or 2200 volt circuits. The secondary voltage may be changed by connection of the secondary leads outside of the transformers. Prices include oil, boxing, two primary fuse boxes, Cat. No. 51874, and transformer hanging hooks. If operated on 1100 volts, the 40 and 50 kw. sizes should be provided with fuse boxes, Cat. No. 5696, which should be specially ordered.

*Fuses listed separately.

TRANSFORMERS

*TYPE H, 60 CYCLE SUBWAY TRANSFORMERS



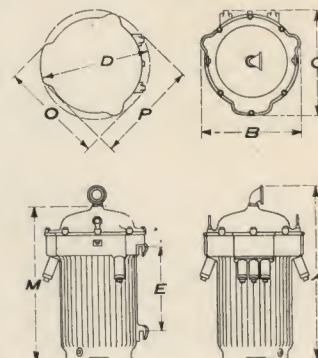
The General Electric Company manufactures Subway transformers for standard voltages and in sizes from 5 to 50 kw. These transformers are absolutely water-tight and are particularly adapted to meet the exacting conditions of underground service. With the exception of the cases, Subway transformers are similar in design and construction to the standard Type H transformers.

In the following table are listed some of the lines which have been developed for this work. The General Electric Company has, however, built Subway transformers to meet a variety of special conditions, and is prepared to submit prices on transformers designed for operation on special frequencies, voltages or on poly-phase circuits.

DIMENSIONS OF TYPE H SUBWAY TRANSFORMERS

SINGLE-PHASE SUBWAY TRANSFORMERS—PRIMARY VOLTAGES, 1100/2200 AND 1200/2400 FREQUENCY LIMITS, 50-140; NORMAL FREQUENCY, 60 CYCLES

Watts	CAT. NO.			Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	DIMENSIONS IN INCHES			MIN. DIAM.	List Price
	Primary Volts									
	1100/2200		1200/2400							
	Secondary Volts									
	110/220	122/244	120/240			A	B	C	D	
5000	31511	31520	31529	455	22	31½	18½	18	19½	Prices on application
7500	31512	31521	31530	480	22	31½	18½	18	19½	
10000	31513	31522	31531	555	25	33½	18½	18½	19½	
15000	31514	31523	31532	815	41	36½	23	23	24½	
20000	31515	31524	31533	990	54	40½	24	24½	25½	
25000	31516	31525	31534	1200	75	43	24	25½	26½	
30000	31517	31526	31535	1375	92	45½	26½	26½	28	
40000	31518	31527	31536	1635	120	48	27½	27½	29½	
50000	31519	31528	31537	1735	150	51	28	28½	29½	



The dimension over the bushings is slightly greater than over the tank as given above in B and C. In the 50 kw. sizes these are increased respectively 1½ in. and 1½ in. and in the smaller sizes are correspondingly lessened. This need not be taken into account when passing the transformers through the manhole as the bushings can be readily removed during this operation.

However, in selecting manholes at least ½ in. should be added to the dimensions on all sizes to allow for variations in castings and also for clearance in passing through the manhole.

Subway Transformers for 1100 or 2200 volt service or 1200 or 2400 volt service may be connected for either primary voltage by means of a special terminal board inside the case. The connection board also provides means for connecting the secondary coil in series, three-wire, or in multiple.

Prices include oil and boxing but do not include fuse boxes.

*TYPE H, 25 CYCLE TRANSFORMERS—POLE TYPE

SINGLE-PHASE—PRIMARY VOLTAGE, 2080/2300 FREQUENCY LIMITS, 25-35; NORMAL FREQUENCY, 25 CYCLES

Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price	Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price
	Primary Volts 2080/2300						Primary Volts 2080/2300				
	Secondary Volts						Secondary Volts				
	115/230	230/460					115/230	230/460			
600	36014		190	5.5	Prices on application	7500	31408		700	38	Prices on application
1000	36015		210	5.5		10000	31409	33508	900	54	
1500	36016		255	7.5		15000	31410	33509	1140	92	
2000	36017		285	7.5		20000	31411	33510	1675	120	
2500	36018		345	15		25000	31412	33511	1825	150	
3000	31405		365	15		30000	31413	33512	2125	185	
4000	31406		425	20		†40000	31414	33513	2250	185	
5000	31407		540	25		†50000	31415	33514	2850	290	

† Not for pole use.

All of the above transformers may be used for three-wire service. These transformers may be connected for either 2080 or 2300 volts primary. The secondary voltage may be changed by the connection of the secondary leads outside of the transformer. Prices include oil, two primary fuse boxes, Cat. No. 51874, and transformer hanging hooks except for 40 and 50 kw. sizes. These two sizes are not provided with hanging hooks as they are too heavy for pole suspension.

* Fuses listed separately.

TRANSFORMERS

*TYPE HT, 60 CYCLE TRANSFORMERS (POLE TYPE)


THREE-PHASE

FREQUENCY LIMITS, 50-140; NORMAL FREQUENCY, 60 CYCLES


The General Electric Company has developed a complete line of three-phase transformers of 2 kw. to 50 kw. capacity. The general construction of these is similar to that of Type H transformers, the principal difference being that there are three vertical legs instead of two as in the Type H transformer.

In addition to the transformers listed in the following pages, the General Electric Company is prepared to submit estimates on polyphase transformers to meet any special conditions of commercial service.

PRIMARY VOLTAGE 2080



Watts	CAT. NO.		Approx. Shipping Weight Including Oil, Lb.	Quarts of Oil Required	List Price
	Secondary Volts				
	230/460	575			
2000	42128	42137	380	16	Prices on application
3000	42129	42138	430	16	
5000	42130	35789	490	20	
7500	42131	35790	570	24	
10000	42132	35791	875	48	
15000	42133	35792	1025	80	
20000	42134	35793	1300	72	
30000	42135	35794	1680	100	
40000	42136	35795	2080	132	
50000	35788	35796	2180	120	




Transformers for 230 or 460 volt service have connection boards for the secondary coils by means of which they may be adapted to either circuit. Prices include oil, boxing, 3 primary fuse boxes, Cat. No. 51874, and transformer hanging hooks.

*TYPE HT, 25 CYCLE TRANSFORMERS (POLE TYPE)

THREE-PHASE

FREQUENCY LIMITS, 25-35; NORMAL FREQUENCY, 25 CYCLES

PRIMARY VOLTAGE 2080/2300



Watts	CAT. NO.	Approx. Shipping Including Weight Oil, Lb.	Quarts of Oil Required	List Price
	Secondary Volts 230/460			
5000	31575	550	28	Prices on application
7500	31576	775	43	
10000	31577	875	60	
15000	31578	1300	120	
20000	31579	1300	100	
30000	31580	1975	140	
40000	31581	2100	140	
†50000	31582	3050	200	

Cat. No. 31578

† Not for pole suspension.

Transformers have connection board by which they may be connected either for 230 or 460 volt service. Prices include oil, boxing, three primary fuse boxes, Cat. No. 51874. All transformers are provided with hanging hooks with exception of 50 kw. which is too heavy for pole suspension.

* Fuses listed separately.

ECONOMY-ARC MOVING PICTURE TRANSFORMERS

The Economy-arc is a special design of transformer for use with Moving Picture Machine Arc Lamps. The advantages of this device are in the resultant saving of power and the elimination of excessive heating and fire risks that accompany the various methods of using rheostats or choke coils.

The primary winding is supplied with two 5 per cent. taps to compensate for variations in line voltage. The secondary winding is ingeniously arranged for operation with a switch to vary the current in the lamp circuit.

Standard transformers are designed for 60 cycles. Special transformers, however, can be supplied for any desired frequency.



Cat. No.	Type	Pri. Volts	Sec. Amps.	Cycles	Net Wt. Lb.	List Price
76331	Y 119	110	30/40/50	60	90	Prices on application
76332	Y 119	220	30/40/50	60	90	

TRANSFORMERS

BELL RINGING TRANSFORMER

The Bell Ringing Transformer is used as a substitute for batteries, operating electric bells, buzzers, annunciators, burglar alarms, gas lighting systems, etc. It eliminates all battery troubles, requires no attention and is always ready for service.

The windings are arranged for three secondary voltages on account of the difference in sizes and types of bells.



Cat. No.	Type	Rating	Net Wt. Lb.	List Price
62526	Y 120	Primary volts 110 Sec. volts 6/12/18 Cycles 40-133	5	Prices on application

TELEPHONE INSULATING TRANSFORMER

The Telephone Insulating Transformer is designed to protect users of telephones from induced and high potential voltages which result when high potential transmission lines are on the same poles, or in the near vicinity to telephone wires.

The Transformer is heavily insulated and when used with combined switch, fuse, and lightning arrester (Cat. No. 38440) will give absolute protection to telephone instrument and user, even in extreme cases of actual contact with transmission lines.

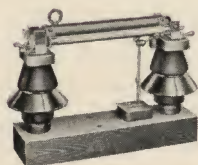
It is assembled in a weatherproof iron case and may be installed out of doors. Cat. No. 62338 is for general use. Cat. No. 43309 has double winding on both primary and secondary, making an available neutral and is recommended in special cases and where telegraphing and signaling are to be carried on the same wires without disturbing telephone instruments.



Cat. No.	Net Wt. Lb.	List Price
43309	30	Prices on application
62338	40	

FUSE AND LIGHTNING ARRESTER

The accompanying illustration shows a combined fuse, lightning arrester and disconnecting switch for use on telephone circuits in connection with the Telephone Insulating Transformer. A carbon gap is provided, which becomes operative in the event of a broken wire, or other unbalanced condition on a telephone line. Another adjustable gap between line and ground serves as a lightning arrester. In cases of contact between telephone and a high tension line this gap will arc over and blow the fuses, completely disconnecting transformer and telephone.

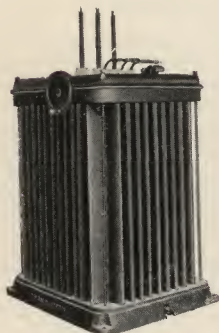


Cat. No.	List Price
38440	Prices on application

For extra fuses and holders see Cat. No. 45268 (Index to Cat. Nos.).

TYPE KMS FLUX SHUNT TESTING TRANSFORMERS

The General Electric Company has developed and placed on the market a transformer of radically new design for high potential testing. It is designated as the Type KMS Flux Shunt Transformer, and was specially designed to overcome the defects common to other types of testing transformers. By a simple arrangement of moving cores, the testing voltage may be regulated from approximately zero to the maximum rated voltage without the use of resistance boxes, water rheostats, or any cutting in or out of turns on either primary or secondary winding. It exerts a restraining influence upon the wave form of the test voltage, tending to deliver a smooth and desirable wave for testing purposes. The whole apparatus being self-contained can be mounted on trucks and conveniently carried from place to place for testing.



TRANSFORMERS (Concluded)—FEEDER REGULATORS

TYPE KMS FLUX SHUNT TESTING TRANSFORMERS (Concluded)

The following sizes are recommended:

Cat. No.	Type	Frequency	Kw.	Primary Voltage	Maximum Secondary Voltage	Approximate Ship. Wt. Including Oil, Lb.	List Price
42186	KMS	60	5	220	10000	2570	Prices on application
42187	KMS	60	10	220	10000	2680	
42188	KMS	60	5	220	30000	2780	
42189	KMS	60	20	220	30000	3120	
42190	KMS	60	30	220	30000	3360	
42191	KMS	60	50	220	30000	3820	
42192	KMS	60	10	220	40000	3040	
42193	KMS	60	20	220	50000	3440	
42194	KMS	60	30	220	50000	3660	
42195	KMS	60	50	220	50000	4120	

The voltage given in the above list represents the maximum voltage at the different capacities, but each transformer can be easily wound for lower secondary and primary voltage.

FEEDER REGULATORS

The General Electric Company builds three distinct lines of feeder regulators for the control of feeders of any capacity, frequency or voltage.

REGULATION OBTAINED BY TYPE BR AUTOMATIC REGULATOR

Type CR Feeder Regulators have been widely used on circuits of from 50 to 500 kw., where the total boost or buck amounts to from 5 to 50 kw., where the current does not exceed 200 amperes and where hand control only is desired.

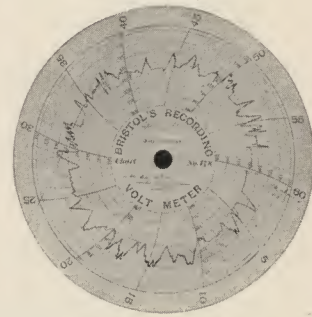
Type IR Regulators have been developed for the control of single or polyphase circuits of any standard voltage or capacity. They can be supplied for hand or motor (remote) control as desired, and by the use of auxiliary devices they may be operated automatically to maintain the voltage of the circuits at a predetermined potential.

The BR type of automatic regulator has been especially designed for the automatic regulation of lighting feeders that have a rapidly fluctuating load, or where the source of the potential is unsteady, due to drags and surges of a long transmission line, the starting up of induction motors, or when a railway load is taken from the same system. (See accompanying charts.)

For complete data on regulators see the bulletin on this subject.



Feeder Side of Regulator



Generator Side

TYPE IR

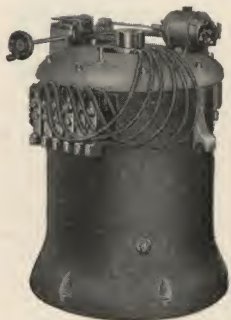
These Regulators are built for any frequency, current capacity, and voltage for which it is desirable to build generators, and are designated by type letters as follows:

IRS—Single-phase. IRQ—Quarter or two-phase.
IRT—Three-phase. IRH—Six-phase.

When motor control is desired, i. e., remote control, a small motor is furnished, as illustrated. Either a direct current or alternating current motor (polyphase preferred) may be furnished. The motor is arranged through suitable gearing to rotate the regulator armature, and is controlled by a double pole, double throw switch, mounted on the switchboard or in any other convenient place.

The automatically operated IR type of Regulator is always furnished with a polyphase alternating current motor on account of the high starting torque required, and also a contact-making voltmeter, relay switch, potential transformer, and brake magnet for overcoming inertia of the motor when voltage is adjusted. If it is desired to automatically compensate for line drop a current transformer is supplied.

The following standard lines of Regulators have been developed and can be shipped shortly after receipt of order.



Six-Phase Induction Potential Regulator with Motor Control



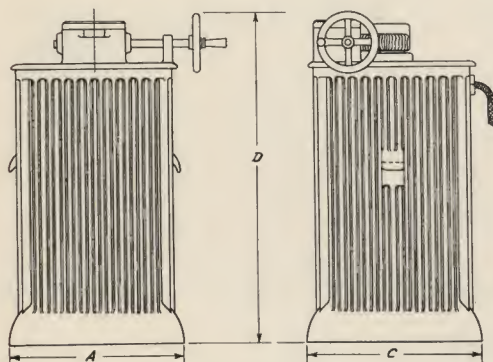
Single-Phase Induction Potential Regulator with Motor Control

FEEDER REGULATORS

TYPE IRS REGULATORS FOR 2250 TO 2400 VOLT, 60 CYCLE CIRCUITS

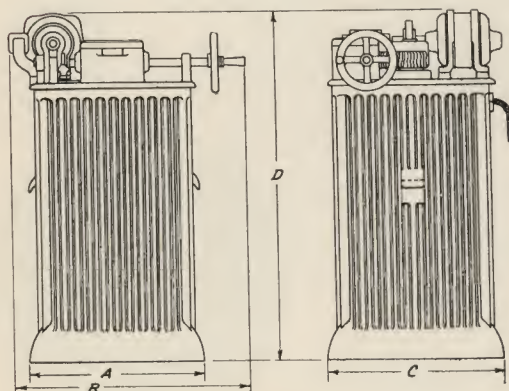
DIMENSIONS OF IRS FEEDER REGULATORS FOR 2200 TO 2400 VOLT, 60 CYCLE CIRCUITS

HAND OPERATED



Amp. Cap. of Feeder	INCREASE OR DECREASE IN LINE VOLTAGE		Kw. Capacity of Regulator	DIMENSIONS IN INS.			WEIGHT IN LB.	
	Per Cent.	Volts		A	C	D	With-out Oil	With Oil
50	5	110	5½	18	18	38	750	825
50	7½	165	8½	18	18	39	800	860
50	10	220	11	20½	20½	40	1225	1325
75	5	110	8½	18	18	39	800	860
75	7½	165	12½	20½	20½	40	1250	1350
75	10	220	16½	20½	20½	44	1300	1430
100	5	110	11	20½	20½	40	1225	1325
100	7½	165	16½	20½	20½	44	1300	1430
100	10	220	22	20½	20½	48	1550	1675
150	5	110	16½	20½	20½	44	1300	1430
150	7½	165	25	20½	20½	48	1600	1725
150	10	220	33	24	24	57	2425	2600
200	5	110	22	20½	20½	48	1550	1675
200	7½	165	33	24	24	57	2425	2600
200	10	220	44	24	24	61	2530	2700

MOTOR OPERATED



Amp. Cap. of Feeder	INCREASE OR DECREASE IN LINE VOLTAGE		Kw. Capacity of Regulator	DIMENSIONS IN INS.				WEIGHT IN LB.	
	Per Cent.	Volts		A	B	C	D	With-out Oil	With Oil
50	5	110	5½	18	23	18	41	750	825
50	7½	165	8½	18	23	18	41	800	860
50	10	220	11	20½	28½	20½	43	1225	1325
75	5	110	8½	18	23	18	41	800	860
75	7½	165	12½	20½	28½	20½	43	1250	1350
75	10	220	16½	20½	28½	20½	47	1300	1430
100	5	110	11	20½	28½	20½	43	1225	1325
100	7½	165	16½	20½	28½	20½	47	1300	1430
100	10	220	22	20½	28½	20½	51	1550	1675
150	5	110	16½	20½	28½	20½	47	1300	1430
150	7½	165	25	20½	28½	20½	51	1600	1725
150	10	220	33	24	31	24	60	2425	2600
200	5	110	22	20½	28½	20½	51	1550	1675
200	7½	165	33	24	31	24	60	2425	2600
200	10	220	44	24	31	24	64	2530	2700

NOTE.—All of the above regulators are arranged so that by changing the internal connections of the primary they may be used on 1100 volt circuits. By changing the internal connections of the secondary a 5% regulator may be arranged for a 10% boost or lower on a 2200 volt circuit with half the current, and a 10% regulator so that a 5% boost or lower may be obtained with double the line current given in the above tabulation.

All regulators that are wound for 2200 volts can be operated on circuits that vary 10% either way from this voltage, with normal heating, provided the kilowatt capacity of the regulator remains the same.

TYPE IRT REGULATORS FOR 2200 TO 2240 VOLT, 60 CYCLE CIRCUITS

Amp. Cap. of Feeder	Increase or Decrease in Line Voltage at 2200 Volts	Kw. Cap. of Reg.	**Method of Cooling	DIMENSION IN INS.		APPROX. SHIP. WT. IN LB.	Prices	Amp. Cap. of Feeder	Increase or Decrease in Line Voltage at 2200 Volts	Kw. Cap. of Reg.	**Method of Cooling	DIMENSIONS IN INS.		APPROX. SHIP. WT. IN LB.	Prices
				Dia. of Base	Ht. Over All							Dia. of Base	Ht. Over All		
25	7.5%-165	7.25	Oil	26	48	1540	1650	100	10 %-220	38	Oil	35	66	4400	5060
50	10 %-220	9.5	Oil	26	54	1980	2200	150	7.5%-165	43	O. & W.	35	66	3740	4400
50	7.5%-165	14.5	Oil	35	54	2800	3080	200	10 %-220	57	Oil	35	66	4400	5060
75	10 %-220	19	Oil	35	54	2880	3080	200	7.5%-165	57	O. & W.	35	66	4180	4850
75	7.5%-165	21.5	Oil	35	60	2880	3300	200	10 %-220	76	O. & W.	35	66	4400	5060
75	10 %-220	28.5	Oil	35	60	3740	4290							4400	5060
			O. & W.	35	60	3740	4290							4620	4850
			Oil	35	66	3740	4400								
	7.5%-165	28.5	O. & W.	35	60	3740	4290								

**O. & W.—Oil and water.

All Regulators designed as oil and water cooled can be furnished in the air blast type and conform to the dimensions given.

All Regulators that are wound for 2200 volts can be operated on circuits that vary 10% either way from this voltage with normal heating, provided the kilowatt capacity of the regulator remains the same.

Regulators can be built for any frequency, current capacity, or range in voltage for which it is practical to design generators, also for a higher or lower line potential than 2200 volts. Those for a lower frequency than 60 cycles, or for a higher voltage than 2400 will have greater over-all dimensions and cannot be furnished self-cooled for as large a kilowatt capacity as those listed.

FEEDER REGULATORS

TYPE IRH AIR BLAST SIX-PHASE REGULATORS
FOR 25 CYCLE ROTARY CONVERTERS

Range in voltage, 240 to 280 D.C. Transformers diametrically connected and wound for a secondary voltage of 192.

Kw. Cap. of Rotary Converter	Kw. Cap. of Regulator	DIMENSIONS IN INS.		Approx. Ship. Wt. in Lb.	Prices	Kw. Cap. of Rotary Converter	Kw. Cap. of Regulator	DIMENSIONS IN INS.		Approx. Ship. Wt. in Lb.	Prices
		A	B					Diam. of Base	Height Over All		
300	30	35	50	4400	Prices on appli- cation	1000	100	54	64	9350	Prices on appli- cation
500	50	40	52	5500		1500	150	54	80	12100	
750	75	40	60	6600		2000	200	59	86	15400	

* When an automatic IRH regulator is used for governing the voltage on a rotary converter having a lighting load, the contact-making voltmeter is placed across the D.C. circuit. For line drop compensation, instead of the current transformer previously described, a shunt is used to excite the series coil of the contact-making voltmeter.

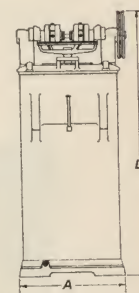
Regulators for rotary converters are usually furnished in the air blast type. They can, however, be made oil and water cooled, and the 30 kilowatt size, oil immersed, self-cooled.

TYPE BR REGULATORS

AUTOMATIC OPERATION FOR SINGLE-PHASE 2200 TO 2400 VOLTS, 60 CYCLE CIRCUITS



Amp. Cap. of Feeder	Increase or Decrease in Line Voltage at 2200 Volts	Kw. Cap. of Regulator	DIMENSIONS IN INS.				APPROX. SHIP. WT. IN LB.		List Price
			A	B	C	D	With- out Oil	With Oil	
50	10 % -220	11	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	1800	2550	Prices on application
75	7 $\frac{1}{2}$ % -165	12 $\frac{1}{2}$	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	1800	2550	
75	10 % -220	16 $\frac{1}{2}$	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	2000	2750	
100	5 % -110	11	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	1800	2550	
100	7 $\frac{1}{2}$ % -165	16 $\frac{1}{2}$	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	2000	2750	
100	10 % -220	22	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	2250	2950	
150	7 $\frac{1}{2}$ % -165	25	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	2200	2950	
150	5 % -110	16 $\frac{1}{2}$	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	2000	2750	
200	5 % -110	22	25 $\frac{3}{4}$	28 $\frac{1}{8}$	18 $\frac{3}{4}$	62 $\frac{1}{2}$	2200	2950	



The pulley on these regulators is 12 inches in diameter, has a grooved face and should revolve at 100 R.P.M.
Motor not included in above list as several regulators may be run from a single motor. The size of the motor is determined by the number of regulators to be operated—allowing $\frac{1}{2}$ H.P. per regulator.
The line shafting for running regulators is usually furnished by the customer as he can do it more cheaply and with less trouble than by referring drawings, etc., to the factory.
All regulators that are wound for 2200 volts can be operated on circuits that vary 10% either way from this voltage, with normal heating, provided the Kw. capacity of the regulator remains as given in the tables.
For automatic line drop compensation a current transformer must be added to the equipment.

SINGLE-PHASE—TYPE CR REGULATORS

The CR Regulator is a variable ratio transformer, having two separate and distinct windings. The primary or shunt winding is connected across the line and the secondary or series winding in series with the line to be controlled. The secondary is provided with a number of taps connected to successive points on a dial switch and the amount of increase or decrease of feeder voltage depends upon the amount of secondary winding included in the circuit and on the direction of the voltage induced in this winding.

STANDARD METHOD OF OPERATION

The CR Regulators are arranged only for hand operation or sprocket and chain control.

For hand operation the handle is attached directly to the dial switch as here shown.

For sprocket and chain control a sprocket wheel is provided in place of the handle, so that by means of a handwheel and sprocket on the switchboard panel and suitable lengths of chain, the regulators may be operated by mechanical remote control.

Regulators listed can either be furnished with handle or sprocket wheel.

DIAL SWITCH

The switch parts are mounted on a marble panel which is fastened to supporting brackets and the brackets are securely bolted to the top of the regulator.

One continuous movement of the switch covering two complete revolutions in one direction produces the entire voltage range between maximum boost and maximum depression on the feeder. At either end of this range the switch is automatically arrested so that it is impossible to turn it too far.

FOR 2200 TO 2400 VOLT, 60 CYCLE CIRCUITS

Amp. Cap. of Feeder	Increase or Decrease in Line Voltage at 2200 Volts	Kw. Cap. of Regulator	Approx. Ship. Wt. in Lb. (with oil)	List Price	Amp. Cap. of Feeder	Increase or Decrease in Line Voltage at 2200 Volts	Kw. Cap. of Regulator	Approx. Ship. Wt. in Lb. (with oil)	List Price
25	10%-220 Volts	5.5	785	Prices on application	100	5%-110 Volts	11	860	Prices on application
50	5%-110 Volts	5.5	785			10%-220 Volts	22	1020	
	10%-220 Volts	11	860		150	5%-110 Volts	16.5	910	
75	5%-110 Volts	8.25	825			10%-220 Volts	33	1510	
	10%-220 Volts	16.5	910		200	5%-110 Volts	22	1020	
						10%-220 Volts	44	1760	



THE MERCURY ARC RECTIFIER

RECTIFIER SET FOR AUTOMOBILE CHARGING

The Mercury Arc Rectifier is a device for simply, efficiently and economically changing alternating current to direct current.

The rectifier is built in four standard sizes, 10, 20, 30 and 40 amperes, and for any direct current voltage up to 175 and any alternating frequency. This device has been very extensively and successfully used for charging electric automobiles and central energy telephone batteries where alternating current only was available. It has, however, been applied with equal success to many other classes of work.

The outfit consists of four essential parts, panel (with complete equipment), rectifier tube, and reactance and regulating compensator. The standard panel is shown in the accompanying illustrations, but special outfits for all classes of work, such as automobile and telephone battery charging, operating moving picture machines, arc lamps, motors and other direct current apparatus can be furnished.



Private Garage Panel, Front



Set for Moving Picture Machine Front



Private Garage Panel, Back



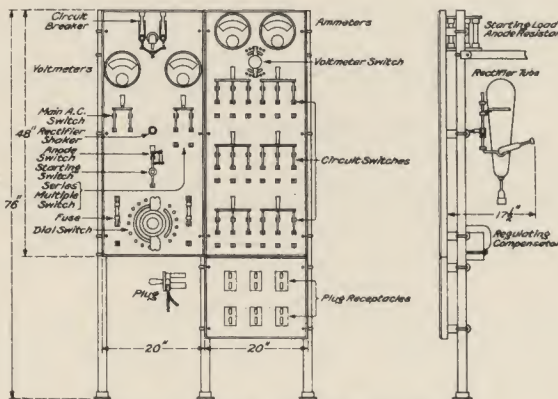
Set for Moving Picture Machine Back

Cat. No.	Super-sede Cat. No.	D.C. Amp.	Range D.C. Volts	A.C. Volts	Cat. No. Rectifier Tubes	Volt-meter Scale	Am-meter Scale	Cells Lead Plate Battery	Frequency
73283	46678	10	10-45	110	40948	75	15	3-18	60-140
73284	46679	20	10-45	110	40951	75	30	3-18	60-140
73285	46680	30	10-45	110	40954	75	40	3-18	60-140
73286	46681	40	10-45	110	40957	75	60	3-18	60-140
73288	46683	10	10-75	110	40949	75	15	6-24	60-140
			45-75	220				15-24	
73289	46684	20	10-75	110	40952	75	30	6-24	60-140
			45-75	220				15-24	
73290	46685	30	10-75	110	40955	75	40	6-24	60-140
			45-75	220				15-24	
73291	46686	40	10-75	110	40958	75	60	6-24	60-140
			45-75	220				15-24	
73293	46688	10	30-120	110	40949	120	15	15-44	60-140
			45-120	220					
73294	46689	20	30-120	110	40952	120	30	15-44	60-140
			45-120	220					
73295	46690	30	30-120	110	40955	120	40	15-44	60-140
			45-120	220					
73296	46691	40	30-120	110	40958	120	60	15-44	60-140
			45-120	220					
73298	46693	10	75-175	220	40950	175	15	35-68	60-140
73299	46694	20	75-175	220	40953	175	30	35-68	60-140
73300	46695	30	75-175	220	40956	175	40	35-68	60-140
73301	46696	40	75-175	220	40959	175	60	35-68	60-140

NOTE.—It will be noted that the above outfits are rated at 60-140 cycles. Rectifiers can, however, be furnished for any frequency from 25 to 140 cycles.

RECTIFIER FOR MOVING PICTURE MACHINES

The Mercury Arc Rectifier has recently been introduced for use with moving picture machines and as it furnishes direct current to the arc lamp and regulates the flow of current from the A.C. side it has proven itself to be better than either A.C. or D.C. directly on the arc from the supply circuit. The rectifier is made for operation on about 110 or 220 volts A.C. 60-140 cycles and will deliver 30 amps. at the voltage of the arc.



Cat. No. 73302 Garage Type Rectifier with Cat. No. 73303 Subbase

regarding the machines and the number usually charged together. Upon receipt of this information complete recommendations will be furnished.

RECTIFIERS FOR USE IN PUBLIC CHARGING GARAGES

For charging a number of automobiles in electric garages the panel shown in the accompanying illustration has been designed. While the exact method will differ with the conditions, the plan consists briefly in charging a number of vehicle batteries in series-multiple. This method will be found to be very efficient in either small or large garages. For further information apply to the nearest office of the General Electric Company, giving complete information

AUTOMATIC VOLTAGE REGULATORS

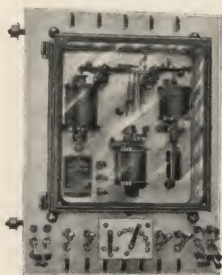
TYPES TA AND TD

Types TA and TD regulators are designed to regulate automatically the voltage of alternating current and direct current generators, respectively. For a description of these regulators reference should be made to the bulletins on this subject.

REGULATORS FOR ALTERNATING CURRENT GENERATORS

TYPE TA, FORM A2

Height 20 1/2 in., Width 15 in., Depth Over All 13 1/2 in.



Type TA Regulator
Form A2

Cat. No.	Type	Form	Range of Exciter Voltage	Shipping Weight in Lb.	Shipping Weight of Resist. Boxes
29634	TA- 60	A2	35 to 67	88	22
37699	TA- 90	A2	50 to 100	88	22
29635	TA-125	A2	70 to 140	88	22
31625	TA-250	A2	140 to 280	88	35

TYPE TA, FORM F

Height 34 in., Width 16 in., Depth Over All 15 1/8 in.

Cat. No.	Type	Form	Range of Exciter Voltage	Shipping Weight in Lb.	Shipping Weight of Resist. Boxes	Cat. No.	Type	Form	Range of Exciter Voltage	Shipping Weight in Lb.	Shipping Weight of Resist. Boxes
43233	TA- 90	F2	50 to 100	228	30	43249	TA-125	F7	70 to 140	247	33
43244	TA-125	F2	70 to 140	228	30	43239	TA- 90	F8	50 to 100	251	34
43234	TA- 90	F3	50 to 100	232	30	43250	TA-125	F8	70 to 140	251	34
43245	TA-125	F3	70 to 140	232	30	43240	TA- 90	F9	50 to 100	256	34
43235	TA- 90	F4	50 to 100	235	32	43251	TA-125	F9	70 to 140	256	34
43246	TA-125	F4	70 to 140	235	32	43241	TA- 90	F10	50 to 100	259	34
43236	TA- 90	F5	50 to 100	238	32	43252	TA-125	F10	70 to 140	259	34
43247	TA-125	F5	70 to 140	238	32	43242	TA- 90	F11	50 to 100	260	35
43237	TA- 90	F6	50 to 100	242	33	43253	TA-125	F11	70 to 140	260	35
43248	TA-125	F6	70 to 140	242	33	43243	TA- 90	F12	50 to 100	264	36
43238	TA- 90	F7	50 to 100	247	33	43254	TA-125	F12	70 to 140	264	36

REGULATORS FOR DIRECT CURRENT GENERATORS

TYPE TD, FORM G

Height 15 1/2 in., Width 12 in., Depth Over All 14 1/2 in.

TYPE TD, FORM K

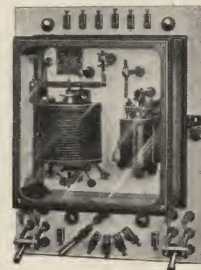
Height 31 in., Width 15 in., Depth Over All 13 1/2 in.

Cat. No.	Type	Form	Volts	Approx. Shipping Weight in Lb.	Cat. No.	Type	Form	Volts	Approx. Shipping Weight in Lb.
43193	TD125	G	125	77	48700	TD125	K2	125	138
43194	TD250	G	250	95	48701	TD125	K3	125	144
43195	TD550	G	550	77	48702	TD125	K4	125	150

TYPE TD, FORM L

Height 20 1/2 in., Width 15 in., Depth Over All 13 1/2 in.

59982	TD125	L	125	110	59984	TD550	L	550	110
59983	TD250	L	250	110					



Type TD Regulator
Form G

27298 Condenser section (including Tripods) for either TA or TD regulators.

REGULATOR BRACKETS

Cat. No.	Description
27299	Set of Iron Brackets for Type TA, Form A2 Regulators, including bolts and nuts.....
43691	Set of Iron Brackets for Type TA, Form F Regulators, including bolts and nuts.....
29014	Set of Iron Brackets for Type TD, Form G Regulators, including bolts and nuts.....
27299	Set of Iron Brackets for Type TD, Form K Regulators, including bolts and nuts.....
*59926	Set of Iron Brackets for Type TD, Form G Regulators, including bolts and nuts.....
*59927	Set of Iron Brackets for Type TA and Type TD, Forms K and L Regulators, including bolts and nuts.....

Weight per set 14 lb.

* Brackets for pipe support.

AUTOMATIC VOLTAGE REGULATORS (Concluded)

MAIN AND RELAY CONTACTS FOR REGULATORS

Cat. No.	Description
30846	Gauge for adjusting magnet levers for Type TA Regulators
38256	One set of $\frac{1}{8}$ in. platinum relay contacts for either Type TA, Form A2 or Type TD, Forms G and K Regulators
38257	One set of $\frac{1}{8}$ in. chemically pure silver relay contacts for either Type TA, Form A2 or Types TD, Forms G and K Regulators
38258	One set of main contacts for Type TA, Form A2 Regulators
38259	One set of main contacts for Type TD, Forms A and C Regulators
59207	One set of main contacts for Type TD, Forms G and K Regulators
49481	One set of chemically pure silver relay contacts for Type TA, Form F Regulators
49482	One set of main contacts for Type TA, Form F Regulators

For all TD Regulators it is advisable to furnish chemically pure silver relay contacts. For TA Regulators with exciters up to 8 kw. capacity better results can be obtained with platinum, but when the exciters are larger than this it is advisable to use relay contacts of chemically pure silver. However, the Local Offices will have discretion in this matter since contacts will be furnished according to the face of requisitions.

POTENTIAL TRANSFORMERS FOR USE WITH TYPE TA REGULATORS TYPE P—25 TO 60 CYCLES

Cat. No.	Watts	VOLTS		Wgt. in Lb.	Fig. No.	Cat. No.	Watts	VOLTS		Wgt. in Lb.	Fig. No.
		Prim.	Sec.					Prim.	Sec.		
31793	200	220	110	110	1	27613	200	*6600	110	298	2
33578	200	330/363/440	110	110	1	27614	200	*11000	110	298	2
27607	200	550	110	110	1	27615	200	*13200	110	298	2
34158	200	1100/2200	110-122	110	1	33580	200	*22000	110	565	3
27611	200	3300	110	110	1	27876	200	*26400	110	565	3
27612	200	*5500	110	298	2						

* Oil insulated.
These potential transformers should be connected to the bus bar corresponding to the phase in which the current transformer is inserted for the compensation of line drop.

NOTE.—The above potential transformers may be used on 125 cycle circuits when used in connection with these regulators.

CURRENT TRANSFORMERS FOR USE WITH TYPE TA REGULATORS TYPE S—25 TO 125 CYCLES

5 Ampere Secondary Normal Load

Air Insulated for Circuits not exceeding 7500 Volts Form D-20

Air Insulated between 7500 and 15000 Volts Form D-21

Cat. No.	Amp. Cap. Prim.	Ratio	Weight in Lb.	Cat. No.	Amp. Cap. Prim.	Ratio	Weight in Lb.	Cat. No.	Amp. Cap. Prim.	Ratio	Weight in Lb.	Cat. No.	Amp. Cap. Prim.	Ratio	Weight in Lb.
41251	5	1:1	37	41258	80	16:1	37	41265	5	1:1	70	41272	80	16:1	70
41252	10	2:1	37	41259	100	20:1	37	41266	10	2:1	70	41273	100	20:1	70
41253	15	3:1	37	41260	150	30:1	37	41267	15	3:1	70	41274	150	30:1	70
41254	20	4:1	37	41261	200	40:1	37	41268	20	4:1	70	41275	200	40:1	73
41255	30	6:1	37	41262	300	60:1	37	41269	30	6:1	70	41276	300	60:1	73
41256	40	8:1	37	41263	400	80:1	37	41270	40	8:1	70	41277	400	80:1	73
41257	60	12:1	37	41264	600	120:1	41	41271	60	12:1	70	41278	600	120:1	76

Oil Insulated for Circuits between 15000 and 27000 Volts
Form F-4

Oil Insulated for Circuits between 27000 and 35000 Volts
Form F-10

Cat. No.	Amp. Cap. Prim.	Ratio	Weight in Lb. without Oil	Cat. No.	Amp. Cap. Prim.	Ratio	Weight in Lb. without Oil	Cat. No.	Amp. Cap. Prim.	Ratio	Weight in Lb. without Oil	Cat. No.	Amp. Cap. Prim.	Ratio	Weight in Lb. without Oil
41279	5	1:1	274	41284	40	8:1	274	41289	5	1:1	520	41294	40	8:1	520
41280	10	2:1		41285	60	12:1		41290	10	2:1		41295	60	12:1	
41281	15	3:1		41286	80	16:1		41291	15	3:1		41296	80	16:1	
41282	20	4:1		41287	100	20:1		41292	20	4:1		41297	100	20:1	
41283	30	6:1		41288	150	30:1		41293	30	6:1		41298	150	30:1	

Weight of oil in Cat. No. 41279-41288, 60 lb.

Weight of oil in Cat. No. 41289-41298, 100 lb.

COMPOUNDING SHUNTS COMPLETE FOR TYPE TD VOLTAGE REGULATORS

Cat. No.	Ampere	Cat. No.	Ampere	Cat. No.	Ampere	Cat. No.	Ampere
46018	100	46021	400	46024	700	46026	900
46019	200	46022	500	46025	800	46027	1000
46020	300	46023	600				

LIGHTNING ARRESTERS

The lightning arresters listed on the following pages comprise arresters designed for all classes of service: for both direct and alternating current and for constant current and constant potential circuits.

ALTERNATING CURRENT GRADED SHUNT RESISTANCE FOR LOW-VOLTAGE CIRCUITS UP TO 5700 VOLTS

VOLTAGE RATING OF ARRESTERS

Voltage of System Line to Line	Class of System	LINE		STATION		Voltage of System Line to Line	Class of System	LINE		STATION	
		Cat. No.	Description	Cat. No.	Description			Cat. No.	Description	Cat. No.	Description
Up to 301	3-phase Δ or ungrounded Y	3413	S.P.			Up to 301	Single-phase ungrounded	3413	S.P.		
		38126	D.P.			301-1200	Single-phase ungrounded	38126	D.P.		
301-1200	3-phase Δ or ungrounded Y	38127	T.P.					46710	S.P.	46711	S.P.
		46710	S.P.	46711	S.P.	1201-2300	Single-phase ungrounded	46712	S.P.	45477	S.P.
		46712	S.P.	45477	S.P.			46714	D.P.	46713	D.P.
1201-2300	3-phase Δ or ungrounded Y	46714	D.P.	46713	D.P.	2301-3000	Single-phase ungrounded	75947	S.P.	75946	S.P.
		46716	T.P.	46715	T.P.	3001-4150	Single-phase ungrounded	46981	S.P.	46980	S.P.
2301-3000	3-phase Δ or ungrounded Y	75947	S.P.	75946	S.P.	4151-5700	Single-phase ungrounded	76020	D.P.	76010	D.P.
3001-4150	3-phase Δ or ungrounded Y	46981	S.P.	46980	S.P.	Up to 301	Single-phase grounded neutral	3413	S.P.		
4151-5700	3-phase Δ or ungrounded Y	75488	T.P.	75242	T.P.			38126	D.P.		
		3413	S.P.			301-2000	Single-phase grounded neutral	46710	S.P.	46711	S.P.
Up to 301	3-phase grounded Y	38126	D.P.					46712	S.P.	45477	S.P.
		38127	T.P.			2100-3500	Single-phase grounded neutral	46714	D.P.	46713	D.P.
301-2000	3-phase grounded Y	46710	S.P.	46711	S.P.			75947	S.P.	75946	S.P.
		46712	S.P.	45477	S.P.	3501-4500	Single-phase grounded neutral				
2001-3500	3-phase grounded Y	46714	D.P.	46713	D.P.			46981	S.P.	46980	S.P.
		46716	T.P.	46715	T.P.	4501-5700	Single-phase grounded neutral				
3501-4500	3-phase grounded Y	75947	S.P.	75946	S.P.			46712	S.P.	45477	S.P.
4501-5700	3-phase grounded Y	46981	S.P.	46980	S.P.	1200-2000	Single-phase, one line grounded	75947	S.P.	75946	S.P.
				46753	T.P.			46981	S.P.	46980	S.P.
						2001-2600	Single-phase, one line grounded				
						2601-3500	Single-phase, one line grounded				
						2300-3300	Quarter-phase, three wire	See below			
						3301-4300	Quarter-phase, three wire	See below			

Quarter-phase, four wire—treat as single-phase ungrounded.

* Voltage across outside wires.

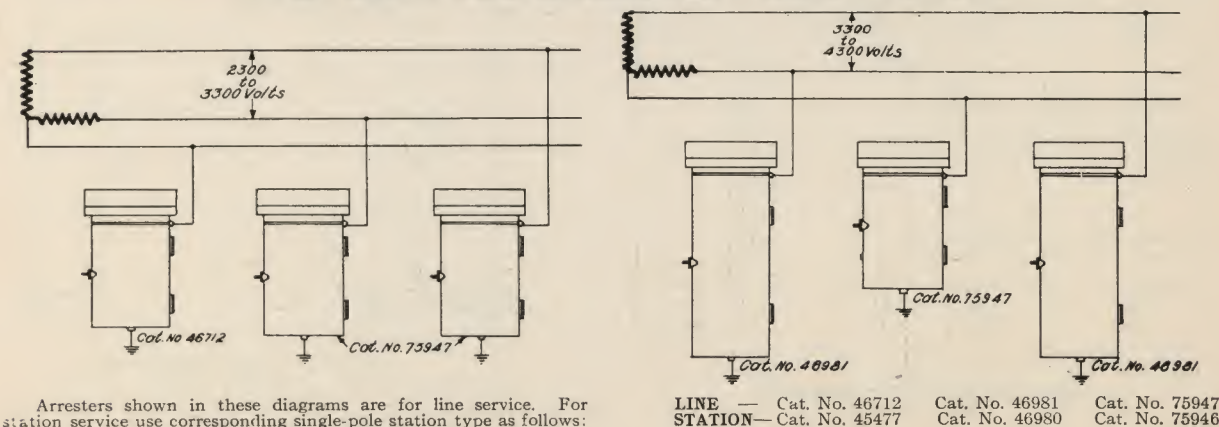
WEIGHTS

Cat. No.	Description	Approx. Ship. Wt. in Lb.	Cat. No.	Description	Approx. Ship. Wt. in Lb.
3413*	S.P. Form D, Line in iron box	6	46715	T.P. Form F1, Station	22
38126*	D.P. Form D, Line in iron box	8.5	46716	T.P. Form F1, Line in wooden box	42
38127*	T.P. Form D, Line in iron box	11	46753	T.P. Form F1, Station	28
45477	S.P. Form F1, Station	7.5	46980	S.P. Form F1, Station	15
46710	S.P. Form F1, Line in wooden box	15	46981	S.P. Form F1, Line in wooden box	24
46711	S.P. Form F1, Station	7.5	75242	T.P. Form F1, Station	70
46712	S.P. Form F1, Line in wooden box	15	75488	T.P. Form F1, Line	96
46713	D.P. Form F1, Station	15	75946	S.P. Form F2, Station	10
46714	D.P. Form F1, Line in wooden box	28	75947	S.P. Form F2, Line in wooden box	20
			76010	D.P. Form F1, Station	71
			76020	D.P. Form F1, Line in wooden box	95

* Not of graded shunt resistance type. For transformer secondaries.

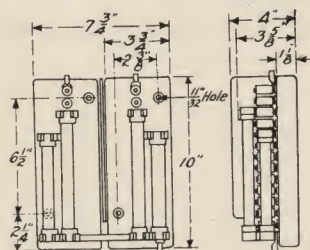
† Also for individual arc lamp.

CONNECTIONS OF TYPE GE FORMS F1 AND F2 LIGHTNING ARRESTERS FOR TWO-PHASE THREE-WIRE ALTERNATING CURRENT CIRCUITS

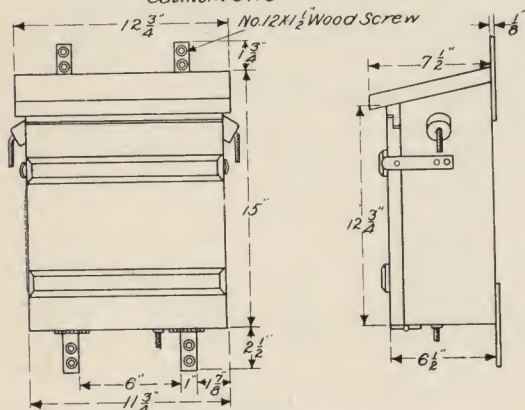


LIGHTNING ARRESTERS

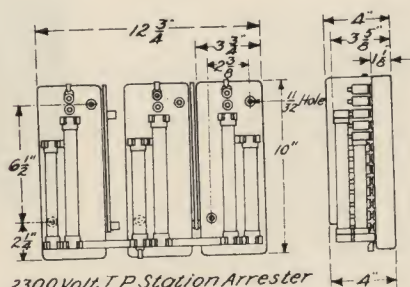
DIMENSIONS OF LOW-VOLTAGE ALTERNATING CURRENT LIGHTNING ARRESTERS



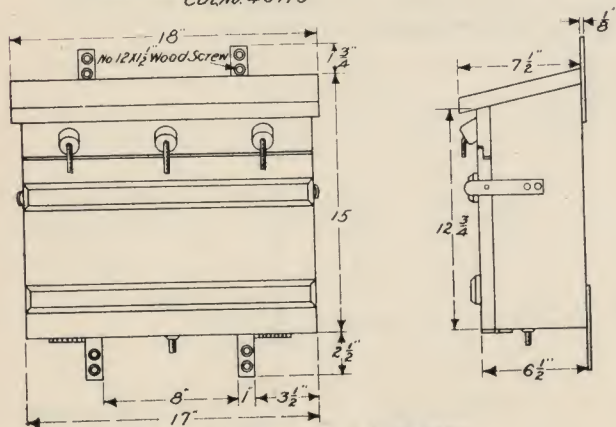
2300 Volt D.P. Station Arrestor
Cat. No. 46713



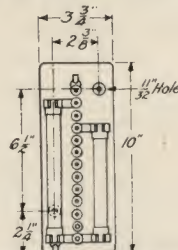
Box for 2300 Volt Line Arrestor
Cat. No. 46718



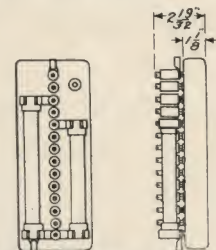
2300 Volt T.P. Station Arrestor
Cat. No. 46715



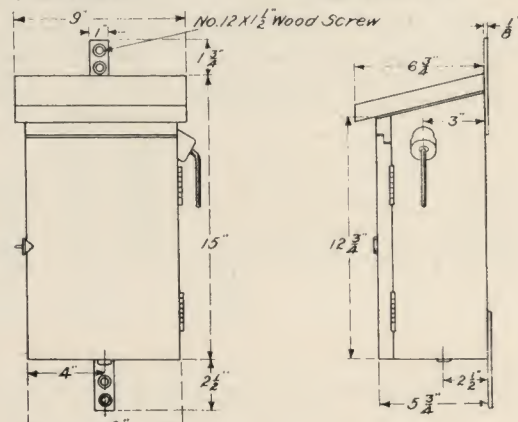
Box for 2300 Volt Line Arrestor
Cat. No. 46719



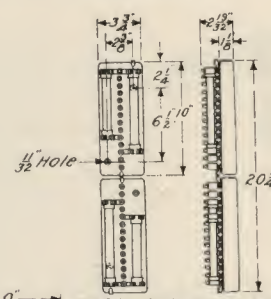
1000 Volt S.P. Station Arrestor
Cat. No. 46711



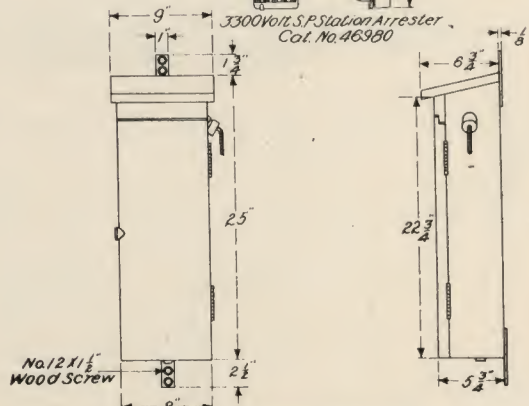
2300 Volt S.P. Station Arrestor
Cat. No. 45477



Box for 1000 or 2300 Volt Line Arrestor
Cat. No. 46717



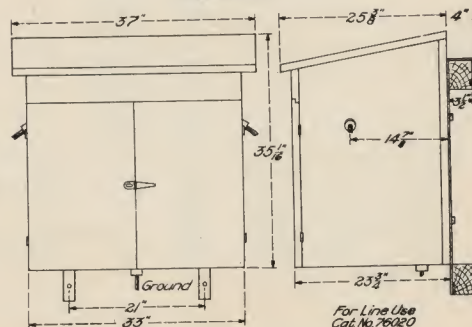
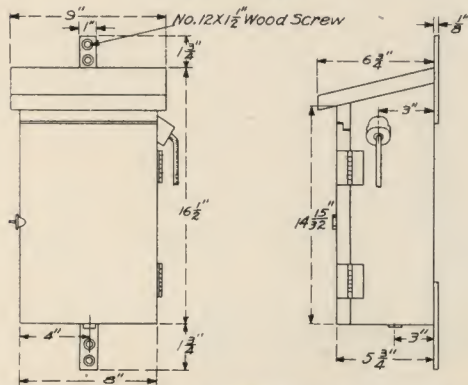
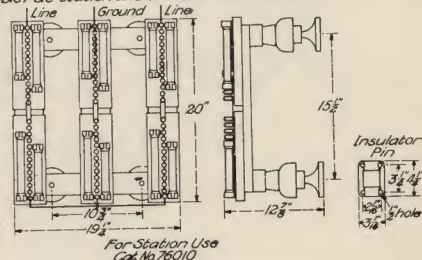
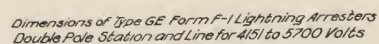
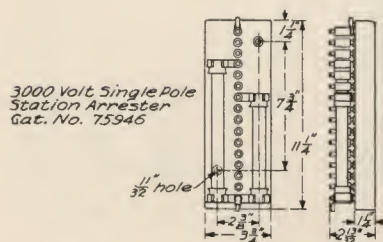
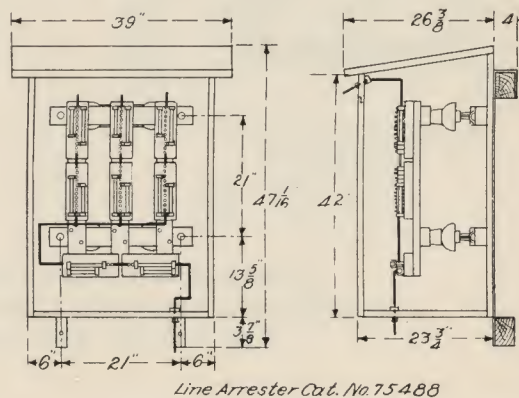
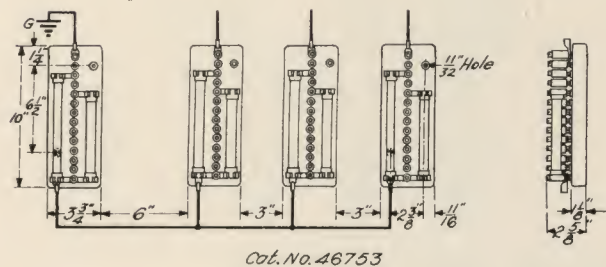
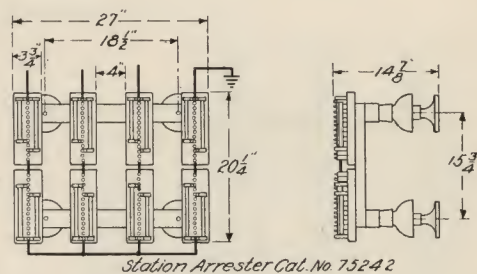
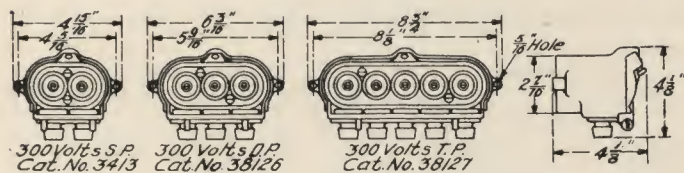
3300 Volt S.P. Station Arrestor
Cat. No. 46980



Box for 3300 Volt Line Arrestor
Cat. No. 46979

LIGHTNING ARRESTERS

DIMENSIONS OF LOW-VOLTAGE ALTERNATING CURRENT LIGHTNING ARRESTERS

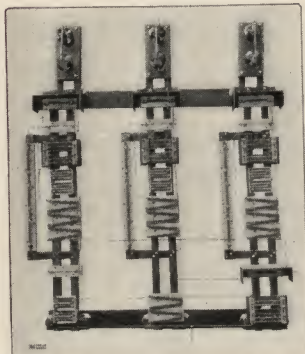


Box for 3000 Volt Line Arrester Cat. No. 75948
3000 Volt Single Pole Line Arrester (Box and Arrester) Cat. No. 75947

LIGHTNING ARRESTERS

ALTERNATING CURRENT LIGHTNING ARRESTERS WITH GRADED SHUNT RESISTANCE FOR HIGH-VOLTAGE CIRCUITS

THE FOLLOWING CAT. NOS. DO NOT INCLUDE DISCONNECTING SWITCHES



General Electric Graded Shunt Resistance Multigap Lightning Arrester

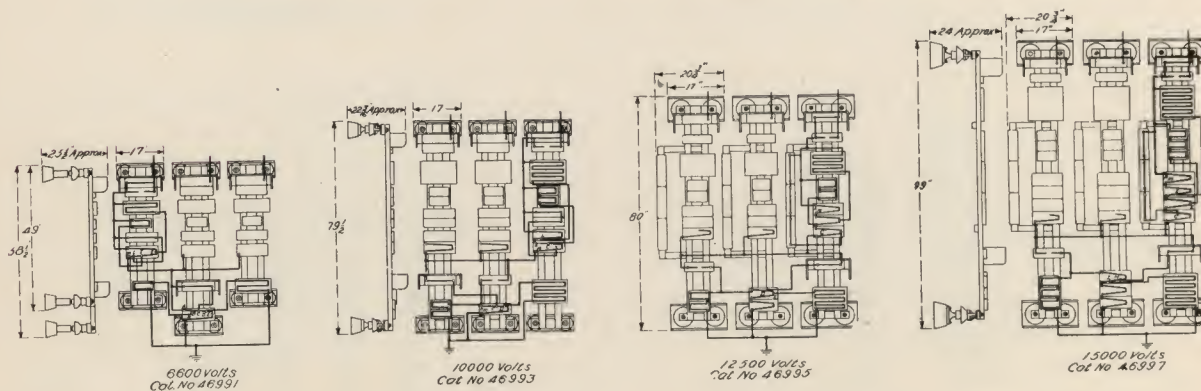
THREE-PHASE FOR "DELTA" OR UNGROUNDED "Y" CIRCUITS

Cat. No.	Min. and Max. Voltage on which Arrester should be Installed	Approx. Ship. Wt. in Lb.
46991	5700-7600	353
46993	7601-12250	465
46995	12251-13500	550
46997	13501-17000	650
46999	17001-22000	805
47001	22001-27000	980
47003	27001-32000	1245
47005	32001-37000	1430

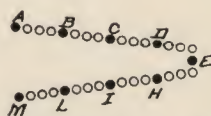
THREE-PHASE FOR GROUNDED "Y" CIRCUITS

Cat. No.	Min. and Max. Voltage on which Arrester should be Installed	Approx. Ship. Wt. in Lb.
46992	5700-7600	325
46994	7601-12250	420
46996	12251-13500	500
46998	13501-17000	575
47000	17001-22000	715
47002	22001-27000	870
47004	27001-32000	1115
47006	32001-37000	1320

DIMENSIONS OF MULTIGAP GRADED SHUNT RESISTANCE ALTERNATING CURRENT LIGHTNING ARRESTERS WITHOUT SWITCHES FOR 3-PHASE DELTA OR UNGROUNDED Y CIRCUITS



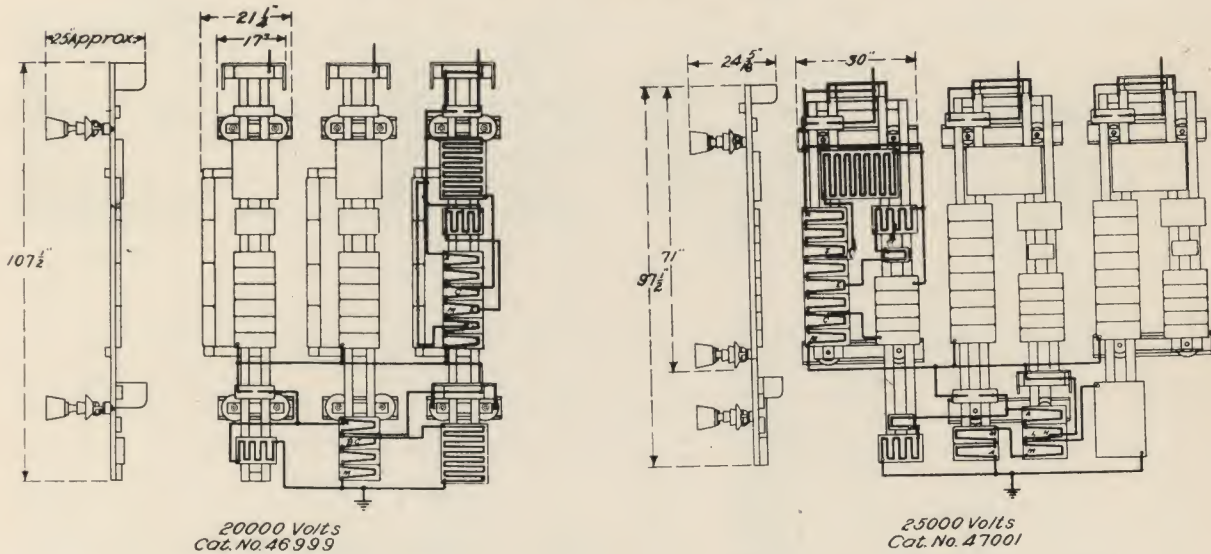
V UNIT



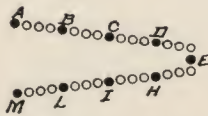
LETTERS ON DIAGRAMS SHOW WHICH CYLINDER OF EACH UNIT IS CONNECTED

LIGHTNING ARRESTERS

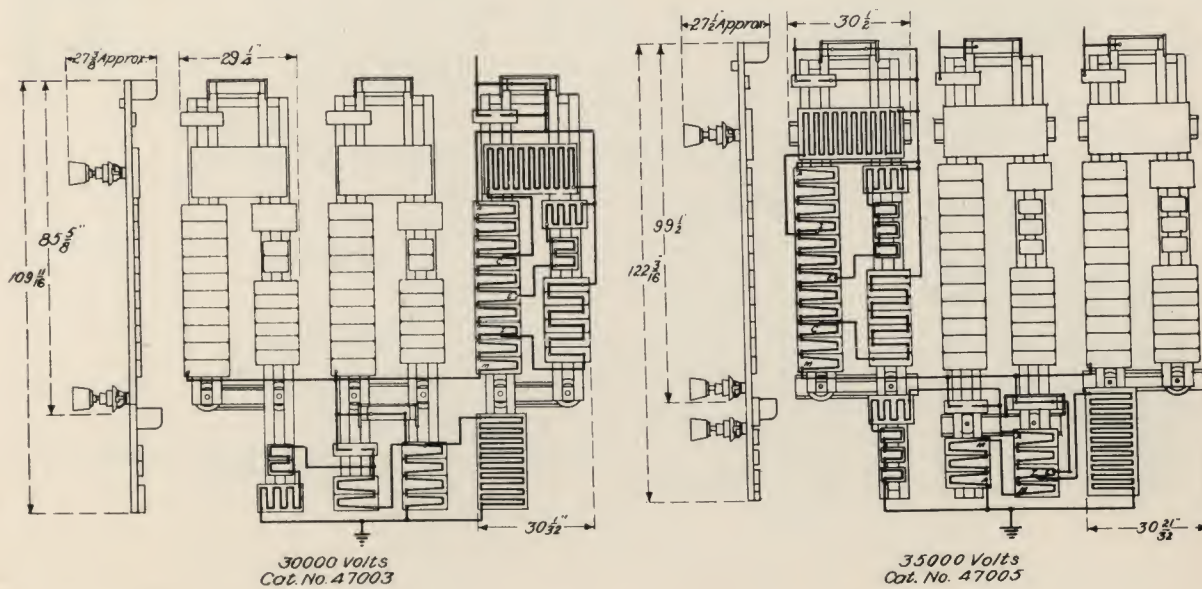
DIMENSIONS OF MULTIGAP GRADED SHUNT RESISTANCE
ALTERNATING CURRENT LIGHTNING ARRESTERS WITHOUT SWITCHES
FOR 3-PHASE DELTA OR UNGROUNDED Y CIRCUITS



V UNIT

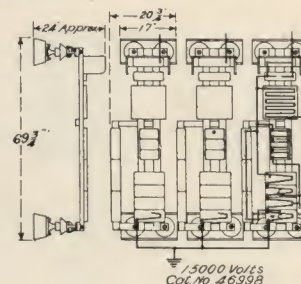
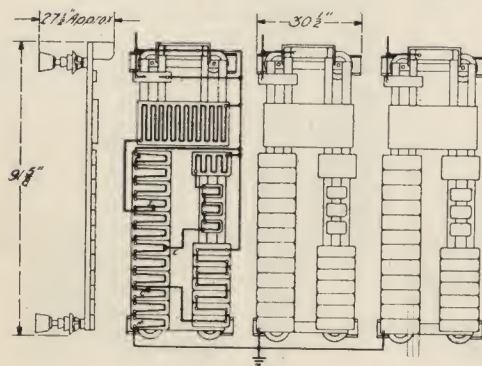
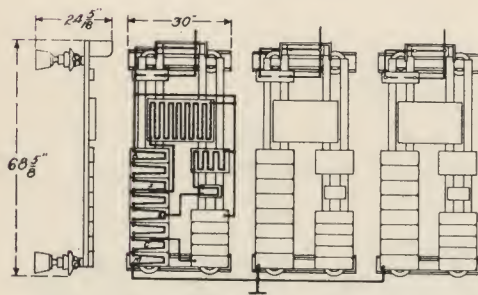
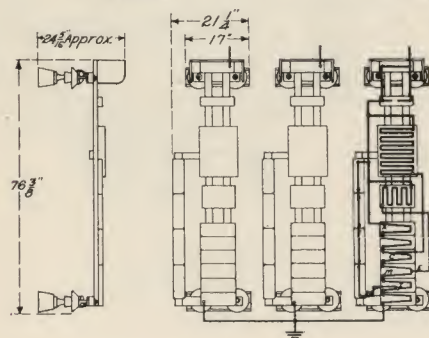
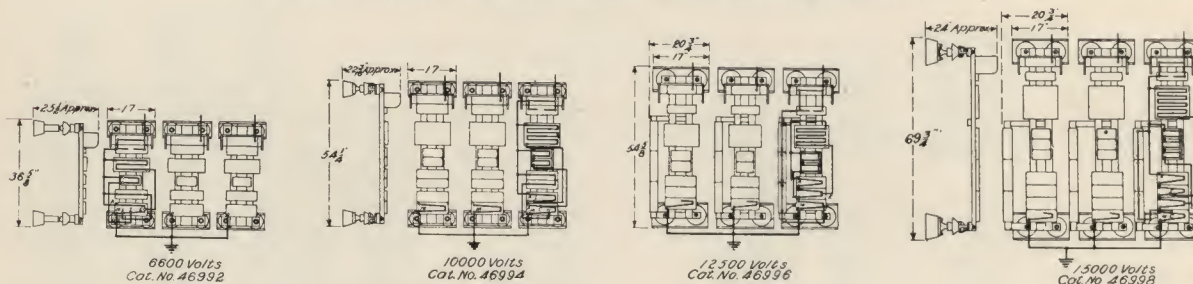


LETTERS ON DIAGRAMS SHOW WHICH CYLINDER OF EACH UNIT IS CONNECTED

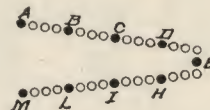


LIGHTNING ARRESTERS

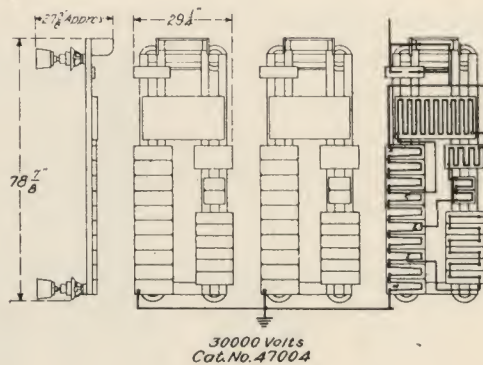
DIMENSIONS OF MULTIGAP GRADED SHUNT RESISTANCE ALTERNATING CURRENT LIGHTNING ARRESTERS WITHOUT SWITCHES FOR 3-PHASE CIRCUITS WITH GROUNDED NEUTRALS



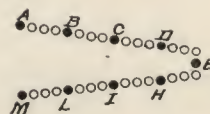
V UNITS



LETTERS ON DIAGRAMS SHOW WHICH CYLINDER OF EACH UNIT IS CONNECTED



V UNITS



LETTERS ON DIAGRAMS SHOW WHICH CYLINDER OF EACH UNIT IS CONNECTED

LIGHTNING ARRESTERS

CONSTANT CURRENT LIGHTNING ARRESTERS—HORN TYPE STATION ARRESTERS

FOR USE ON SECONDARIES OF CONSTANT CURRENT TRANSFORMERS FOR ARC LIGHTING SYSTEMS

Cat. No.	Rating of Transformers	No. Re-quired	Ap-prox. Ship. Wt. in Lb.	Cat. No.	Rating of Transformers	No. Re-quired	Ap-prox. Ship. Wt. in Lb.	Cat. No.	Rating of Transformers	No. Re-quired	Ap-prox. Ship. Wt. in Lb.
47558	25 light	1	30	47560	50 light single-circuit	1	110	47562	100 light single-circuit	1	165
47559	-35 light	1	95	47561	75 light single-circuit	1	110	47577	100 light multi-circuit	2	175

FOR USE ON SECONDARIES OF MERCURY ARC RECTIFIER SYSTEMS†

Cat. No.	Lights Capacity	Volts	Approx. Ship. Wt. in Lb.	Cat. No.	Lights Capacity	Volts	Approx. Ship. Wt. in Lb.	Cat. No.	Lights Capacity	Volts	Approx. Ship. Wt. in Lb.
58959	12	1100	20	58961	50	4600	70	58961	100*	4600	70
58960	25	2300	61	58962	75	6900	120				

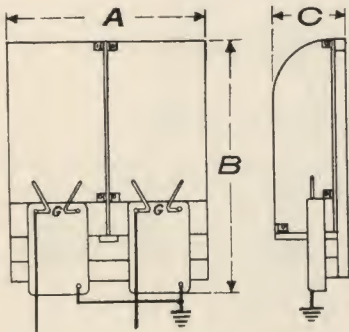
FOR USE ON SECONDARIES OF CONSTANT CURRENT TRANSFORMERS FOR SERIES INCANDESCENT SYSTEMS

Cat. No. Arrester	Kw. Cap. Trans-former	Secondary Amp.	Cat. No. Arrester	Kw. Cap. Trans-former	Secondary Amp.	Cat. No. Arrester	Kw. Cap. Trans-former	Secondary Amp.	Cat. No. Arrester	Kw. Cap. Trans-former	Secondary Amp.
47558	3.8	1.75	47558	7.65	3.5	47560	15.7	4	47559	21.5	6.6
47563	3.8	3.5	47558	7.65	4	47559	15.7	5.5	47559	21.5	7.5
47563	3.8	4	47563	7.65	5.5	47558	15.7	6.6	47562	31	3.5
47563	3.8	5.5	47563	7.65	6.6	47558	15.7	7.5	47562	31	4
47563	3.8	6.6	47563	7.65	7.5	47561	21.5	3.5	47561	31	5.5
47563	3.8	7.5	47562	15.7	1.75	47561	21.5	4	47560	31	6.6
47560	7.65	1.75	47560	15.7	3.5	47560	21.5	5.5	47560	31	7.5

* Multi-circuit—two arresters required.

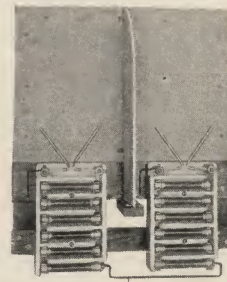
† Arresters Cat. Nos. 58959 to 58962 inclusive are also suitable for use on other D.C. Series Arc Systems.

HORN LIGHTNING ARRESTERS



Dimensions

CAT. NO.		Ap-prox. Ship. Wt. in Lb.	DIMENSIONS IN INS.		
Direct Current	Alternating Current		A	B	C
58960	47558	30	24	8 1/2	3 1/2
	47559	95	23 1/2	28 1/2	8 1/2
	47560	110	23 1/2	29 1/2	8 1/2
58961	47561	110	23 1/2	28	8 1/2
58962	47562	165	23 1/2	32	17
58959	47563	25	24	13 3/8	3 1/2
	47577	175	23 1/2	29 1/2	17



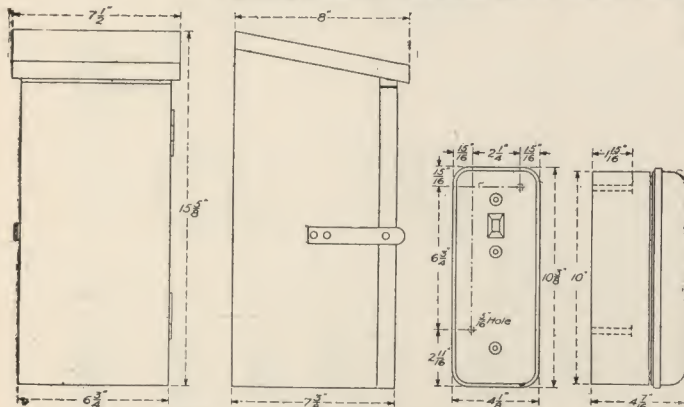
Horn Arrester for Constant Current Circuits

RECOMMENDATIONS FOR ADJUSTING THE GAP OF HORN ARRESTERS

Voltage of Circuit	Gap in Ins. G.
1100	1/8"
1500	1/4"
2300	3/8"
3200	1/2"
4600	5/8"
6900	3/4"
9200	7/8"

LIGHTNING ARRESTERS FOR DIRECT CURRENT CIRCUITS

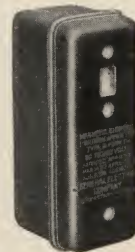
TYPE M, FORM D-2



DIMENSIONS OF TYPE M FORM D-2 LIGHTNING ARRESTER

Cat. No.	Description	Voltage	Ship. Wt. in Lb.
33619	For station use.	60 to 200	15
33620	In wooden box for line use...	60 to 200	25
33867	Extra resistance	60 to 200	..
33621	For station use.	125 to 375	15
33622	In wooden box for line use...	125 to 375	25
33868	Extra resistance	125 to 375	..
33623	For station use.	250 to 850	15
33625	In wooden box for line use...	250 to 850	25
33869	Extra resistance	250 to 850	..
46145*	For station use.	600 to 1800	15
46146*	In wooden box for line use...	600 to 1800	25
59925	Extra resistance	600 to 1800	..

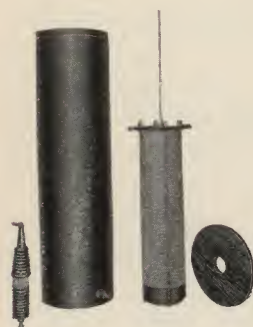
* Two required. Two arresters to be installed in series.



LIGHTNING ARRESTERS

ALTERNATING CURRENT ALUMINUM ARRESTERS

FOR *THREE-PHASE STATION USE WITH HORN GAP DISCONNECTING SWITCHES



Parts of 60,000 Volt Aluminum Arrester

Min. and Max. Voltage of Circuits on which Arresters should be Installed	FOR NON-GROUNDED NEUTRAL SYSTEMS		FOR SYSTEMS WITH GROUNDED NEUTRAL	
	§Cat. No.	Approx. Ship. Wt. in Lb.	§Cat. No.	Approx. Ship. Wt. in Lb.
1000-2550	76702	516	76701	450
2551-3600	76704	600	76703	580
3601-4680	76706	648	76705	612
4681-7250	76708	846	76707	780
7251-11000	76710	1400	76709	1050
11001-13500	76712	1700	76711	1250
13501-16100	76714	1880	76713	1410
16101-18700	76716	2070	76715	1550
18701-21800	76718	2200	76717	1650
21801-27000	76720	2480	76719	1860
27001-32200	76722	2760	76721	2070
32201-37900	76724	3080	76723	2310
37901-43000	76726	3490	76725	2618
43001-48250	76728	4060	76727	3045
48251-53500	76730	4680	76729	3510
53501-64250	76732	6000	76731	4500
64251-75000	76734	7830	76733	5873
75001-85000	76736	9700	76735	7275
85001-95000	76738	11900	76737	8925
95001-105000	76740	14166	76739	10620
105001-115000	76742	16700	76741	12525

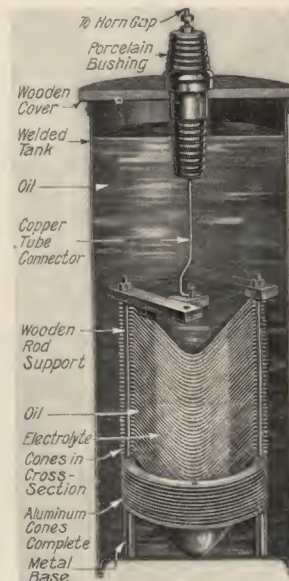
§ Arresters Cat. Nos. 76701-76708 inclusive are for indoor installation only. Arresters Cat. Nos. 76709-76720 inclusive have horn gaps which may be used out of doors.

* Information on single- and quarter-phase arresters for any voltage furnished upon request.

Arresters Cat. Nos. 76701-76720 are supplied complete for installation except the wiring.

Arresters Cat. No. 76721-76742 should have the horn gaps installed out doors. All parts are supplied except the wiring and the vertical supports for the horn gaps.

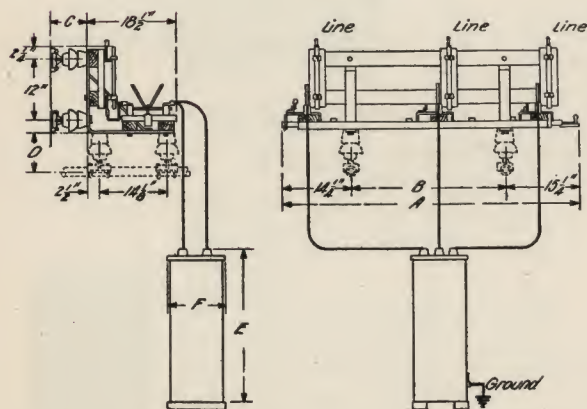
Except under special conditions the arrester tanks should always be installed in the station.



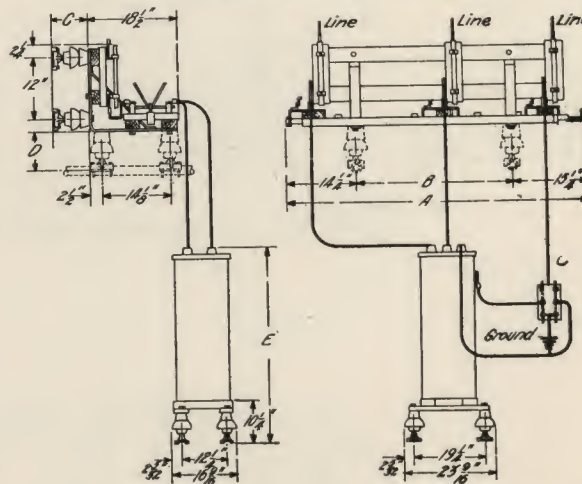
TYPE GE FORM I ALUMINUM ARRESTER FOR 2500 TO 6600 VOLTS

DIMENSIONS

GROUNDED NEUTRAL SYSTEMS



NON-GROUNDED NEUTRAL SYSTEMS



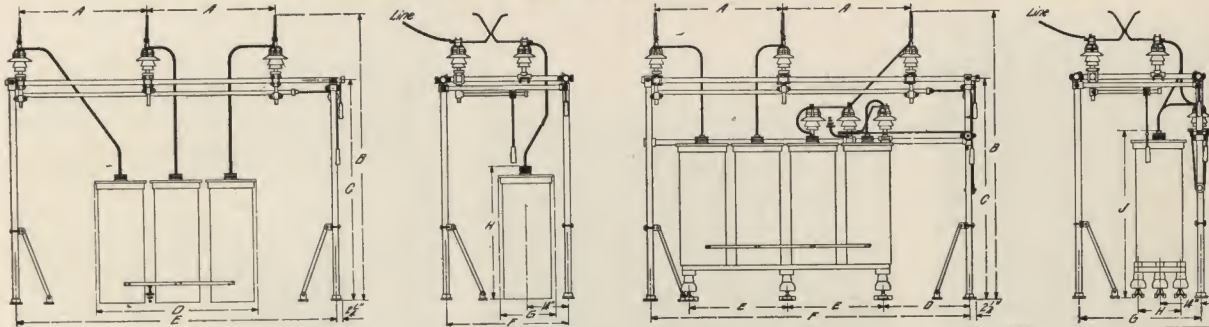
Cat. No.	Voltage	A	B	C	D	E	F	Cat. No.	Voltage	A	B	C	D	E
76701	2500	59"	29 1/2"	4 1/2"	2 1/2"	28 1/2"	16"	76702	2500	59"	29 1/2"	4 1/2"	2 1/2"	42"
76703	3300	59"	29 1/2"	4 1/2"	2 1/2"	41 1/2"	16"	76704	3300	59"	29 1/2"	4 1/2"	2 1/2"	52 1/2"
76705	4600	83"	53 1/2"	7 1/4"	7 1/4"	41 1/2"	16"	76706	4600	83"	53 1/2"	7 1/4"	7 1/4"	52 1/2"
76707	6600	83"	53 1/2"	7 1/4"	7 1/4"	48 1/2"	17 1/2"	76708	6600	83"	53 1/2"	7 1/4"	7 1/4"	67"

LIGHTNING ARRESTERS

TYPE GE FORM I ALUMINUM LIGHTNING ARRESTERS

DIMENSIONS

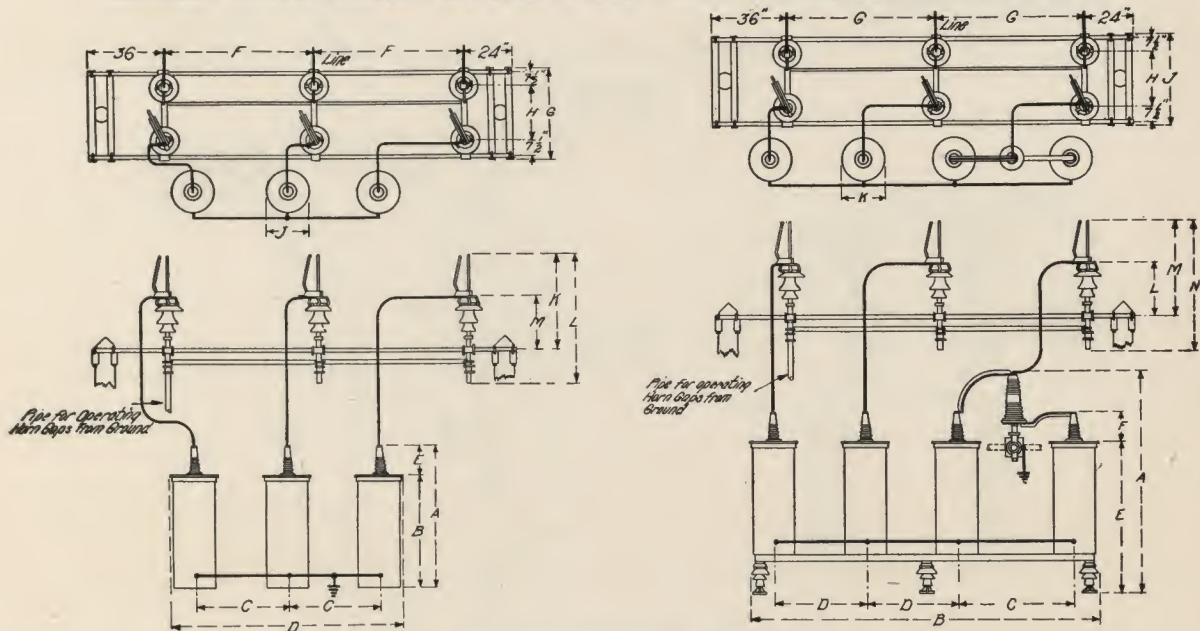
GROUNDED NEUTRAL SYSTEMS — FOR 10,000 TO 25,000 VOLTS — NON-GROUNDED NEUTRAL SYSTEMS



Cat. No.	Volts	A	B	C	D	E	F	G	H	Cat. No.	Volts	A	B	C	D	E	F	G	H	J
76709	10000	30	91 $\frac{1}{2}$	72	52 $\frac{1}{2}$	81	32	17 $\frac{1}{2}$	28 $\frac{1}{2}$	76710	10000	30	91 $\frac{1}{2}$	72	9	31 $\frac{1}{2}$	81	32	13 $\frac{1}{2}$	39 $\frac{1}{2}$
76711	12500	30	91 $\frac{1}{2}$	72	52 $\frac{1}{2}$	81	32	17 $\frac{1}{2}$	31 $\frac{1}{2}$	76712	12500	30	91 $\frac{1}{2}$	72	9	31 $\frac{1}{2}$	81	32	13 $\frac{1}{2}$	42 $\frac{1}{2}$
76713	15000	30	91 $\frac{1}{2}$	72	52 $\frac{1}{2}$	81	32	17 $\frac{1}{2}$	35 $\frac{1}{2}$	76714	15000	30	91 $\frac{1}{2}$	72	9	31 $\frac{1}{2}$	81	32	13 $\frac{1}{2}$	46 $\frac{1}{2}$
76715	17500	42	97 $\frac{1}{2}$	76	52 $\frac{1}{2}$	105	40	17 $\frac{1}{2}$	42 $\frac{1}{2}$	76716	17500	42	97 $\frac{1}{2}$	76	28	31 $\frac{1}{2}$	105	40	13 $\frac{1}{2}$	53 $\frac{1}{2}$
76717	20000	42	97 $\frac{1}{2}$	76	52 $\frac{1}{2}$	105	40	17 $\frac{1}{2}$	42 $\frac{1}{2}$	76718	20000	42	97 $\frac{1}{2}$	76	28	31 $\frac{1}{2}$	105	40	13 $\frac{1}{2}$	53 $\frac{1}{2}$
76719	25000	42	97 $\frac{1}{2}$	76	55 $\frac{1}{2}$	105	40	18 $\frac{1}{2}$	45	76720	25000	42	97 $\frac{1}{2}$	76	9 $\frac{1}{2}$	43	105	40	16 $\frac{1}{2}$	57 $\frac{1}{2}$

For reference only.

GROUNDED NEUTRAL SYSTEMS — FOR 30,000 TO 60,000 VOLTS — NON-GROUNDED NEUTRAL SYSTEMS



GROUNDED NEUTRAL SYSTEMS

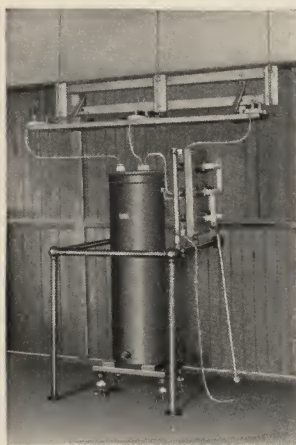
Cat. No.	Voltage	A	B	C	D	E	F	G	H	J	K	L	M
76721	30000	51	46 $\frac{1}{2}$	18 $\frac{1}{2}$	55 $\frac{1}{2}$	43	72	39 $\frac{1}{2}$	22	18 $\frac{1}{2}$	38 $\frac{1}{2}$	50 $\frac{1}{2}$	19
76723	35000	62	54 $\frac{1}{2}$	18 $\frac{1}{2}$	55 $\frac{1}{2}$	7	72	39 $\frac{1}{2}$	22	18 $\frac{1}{2}$	38 $\frac{1}{2}$	50 $\frac{1}{2}$	19
76725	40000	63	55 $\frac{1}{2}$	30 $\frac{1}{2}$	80 $\frac{1}{2}$	7	72	39 $\frac{1}{2}$	22	19 $\frac{1}{2}$	38 $\frac{1}{2}$	50 $\frac{1}{2}$	19
76727	45000	74	61 $\frac{1}{2}$	30 $\frac{1}{2}$	80 $\frac{1}{2}$	12	72	39 $\frac{1}{2}$	22	19 $\frac{1}{2}$	38 $\frac{1}{2}$	50 $\frac{1}{2}$	19
76729	50000	78	65 $\frac{1}{2}$	43 $\frac{1}{2}$	107 $\frac{1}{2}$	12	96	43 $\frac{1}{2}$	26	20 $\frac{3}{4}$	49 $\frac{1}{2}$	61 $\frac{1}{2}$	23 $\frac{1}{2}$
76731	60000	88 $\frac{1}{2}$	75 $\frac{1}{2}$	43 $\frac{1}{2}$	109 $\frac{1}{2}$	12	96	43 $\frac{1}{2}$	26	22 $\frac{1}{4}$	49 $\frac{1}{2}$	61 $\frac{1}{2}$	23 $\frac{1}{2}$

NON-GROUNDED NEUTRAL SYSTEMS

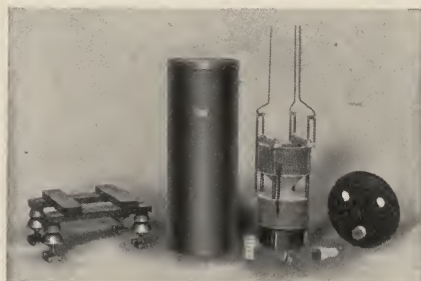
Cat. No.	Voltage	A	B	C	D	E	F	G	H	J	K	L	M	N
76722	30000	74	93	38	18 $\frac{1}{2}$	59	5	72	22	39 $\frac{1}{2}$	18 $\frac{1}{2}$	19	38 $\frac{1}{2}$	50 $\frac{1}{2}$
76724	35000	85	93	38	18 $\frac{1}{2}$	67	8	72	22	39 $\frac{1}{2}$	18 $\frac{1}{2}$	19	38 $\frac{1}{2}$	50 $\frac{1}{2}$
76726	40000	94 $\frac{1}{2}$	130 $\frac{3}{4}$	47	30 $\frac{1}{2}$	72	8	72	22	39 $\frac{1}{2}$	19 $\frac{1}{2}$	19	38 $\frac{1}{2}$	50 $\frac{1}{2}$
76728	45000	105 $\frac{1}{2}$	130 $\frac{3}{4}$	47	30 $\frac{1}{2}$	78	13	72	22	39 $\frac{1}{2}$	19 $\frac{1}{2}$	19	38 $\frac{1}{2}$	50 $\frac{1}{2}$
76730	50000	112 $\frac{3}{4}$	169 $\frac{3}{4}$	57	43 $\frac{1}{2}$	83	13	96	26	43 $\frac{1}{2}$	20 $\frac{1}{4}$	23 $\frac{1}{4}$	49 $\frac{1}{2}$	61 $\frac{1}{2}$
76732	60000	123	169 $\frac{3}{4}$	57	43 $\frac{1}{2}$	93 $\frac{1}{2}$	14	96	26	43 $\frac{1}{2}$	22 $\frac{1}{4}$	23 $\frac{1}{4}$	49 $\frac{1}{2}$	61 $\frac{1}{2}$

LIGHTNING ARRESTERS

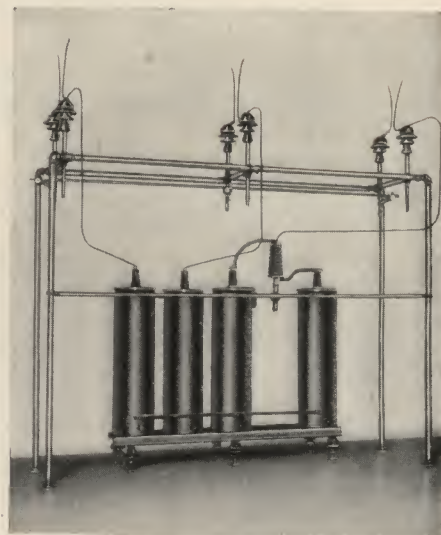
ALTERNATING CURRENT ALUMINUM ARRESTERS



6600 Volt Aluminum Arrester



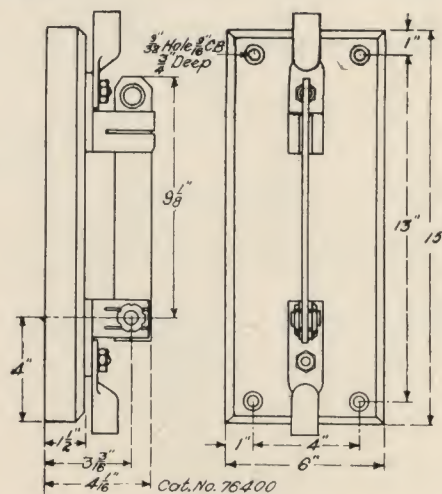
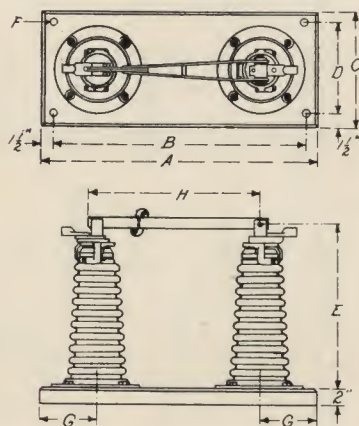
Parts of 4600 Volt Aluminum Arrester



35,000 Volt Aluminum Arrester

DISCONNECTING SWITCHES

DIMENSIONS



Cat. No.	Voltage	A	B	C	D	E	F	G	H	Cat. No.	Voltage	A	B	C	D	E	F	G	H
76433	15000	18	15	9	6	9 3/8	9 1/8	4 1/2	11 1/8	76672	70000	44	41	16	13	23 1/2	11 1/8	8	29 7/8
76666	25000	24	21	12	9	12 1/4	11 1/8	6	14 1/2	76674	90000	51	38	16	13	29 1/4	11 1/8	8	37 1/4
76668	35000	30	27	13	10	15	11 1/8	6 1/2	19 1/4	76675	110000	60	57	18	15	36 1/2	11 1/8	9	44 1/8
76670	45000	34	31	14	11	19 1/8	11 1/8	7	21 3/4										

SWITCH HOOKS AND HANDLES

Cat. No.	Max. Volts	Length in Ft.	Cat. No.	Max. Volts	Length in Ft.
65849	15000	4	65851	70000	12
65850	45000	8	65852	110000	16

LIGHTNING ARRESTERS

CHOKE COILS FOR USE WITH ALTERNATING CURRENT LIGHTNING ARRESTERS

DIMENSIONS

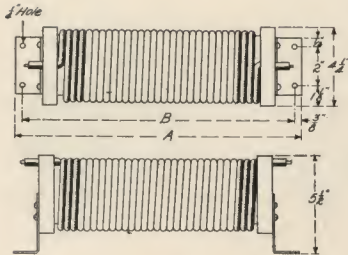


Fig. 1

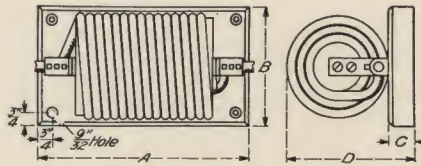


Fig. 2

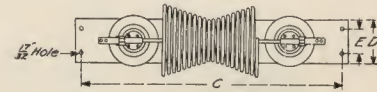


Fig. 4

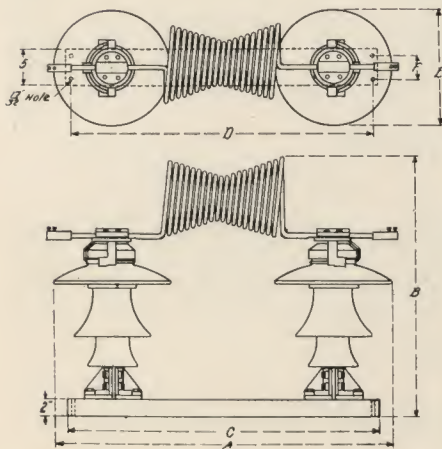


Fig. 3

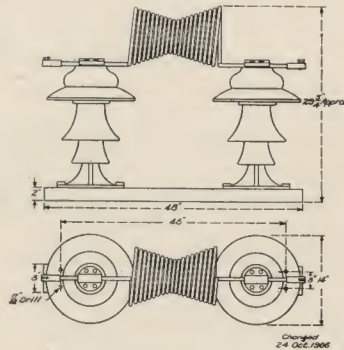


Fig. 6

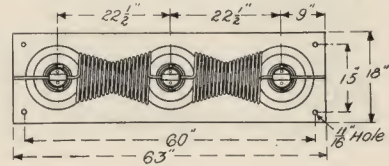


Fig. 5

Cat. No.	Base	Max. Volts	Fig.	Amp.	A	B	C	D	E	F
76339	Iron feet	4600	1	25	15 1/8	14 5/8				
76340	Iron feet	4600	1	50	17 1/8	16 5/8				
25401	Marble	6000	2	25	10 1/4	5 1/2				
3416	Marble	6000	2	100	12 1/4	7	1 1/4	5 1/8		
36832	Marble	6000	2	200	12 1/4	7	1 1/2	7 1/4		
46930	Wood	15000	4	200	38 1/2	16 5/8	30 1/2	7		
46931	Slate	15000	4	200	36	15 5/8	34	4	2	2
46932	Marble	15000	4	200	36	15 5/8	34	8	6	1 1/2
46933	Wood	25000	4	200	36 1/2	18 1/8	36 1/2	4	6	2
46934	Slate	25000	4	200	36	17 1/8	34	4	6	1 1/2
46935	Marble	25000	4	200	36	17 1/8	34	8	6	1 1/2
46936	Wood	35000	4	200	38 1/2	21 1/8	36 1/2	6	4	2
46937	Slate	35000	4	200	36	20 5/8	34	9	7	1 1/2
46938	Marble	35000	4	200	36	20 5/8	34	9	7	1 1/2
75942	Wood	45000	3	200	35 1/8	26 5/8	35 1/2	34	10 1/2	3 1/2
34332	Wood	60000	6	200						
76552	Wood	70000	5	200	28 1/2					
76699	Wood	90000	5	200	31 1/2					
76700	Wood	110000	5	200	40					

FAN MOTORS

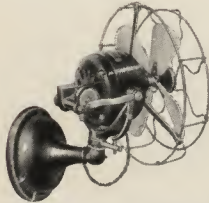
ALTERNATING CURRENT TWELVE- AND SIXTEEN-INCH DESK AND WALL BRACKET FAN MOTORS

Finish. Frame and base of motor finished in black enamel; guard, blades and trimmings, finished in dipped and lacquered brass.

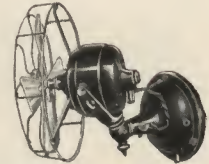
Range of Operation. Motors can be operated over a range of frequency or voltage of 5 per cent. either above or below normal, but the sum of the two variations should not exceed 5 per cent.

Speeds. These motors are equipped with four-point regulating switch which provides three running speeds.

Adjustment. Adjustment both horizontally and vertically. Desk and Wall Bracket types are identical with the exception that the Wall Motor has, in addition to the standard parts of the Desk Type, an Angular Adapter.



Bracket Motor (Oscillating)

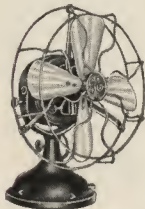


Bracket Motor (Standard)

SWIVEL AND TRUNNION FRAME FAN MOTORS

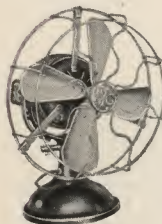
TWELVE-INCH FANS

SIXTEEN-INCH FANS



Desk Motor (Standard)

CAT. NO.		Cycles	Volts	Ap-prox. Watts	Ap-prox. Fast Speed	APPROX. WT.		Net Retail Price	CAT. NO.		Cycles	Volts	Ap-prox. Watts	Ap-prox. Fast Speed	APPROX. WT.		Net Retail Price
Desk	Bracket					Net.	Ship.		Desk	Bracket					Net.	Ship.	
34267	36546	25	110	54	1350	23½	41½	\$16.50	58294	58296	25	110	105	1300	26	44	\$19.00
33594	36545	40	120	70	1750	23½	41½	\$15.50	58295	58297	40	120	133	1750	26	44	\$18.00
34017	36328	60	110	45	1550	23½	41½	\$15.00	34021	36332	60	110	80	1550	26	44	\$17.50
34018	36329	60	220	45	1550	23½	41½	\$16.00	34022	36333	60	220	80	1550	26	44	\$18.50
34019	36330	133	110	100	1800	23½	41½	\$15.00	34023	36334	133	110	135	1750	26	44	\$17.50
34020	36331	133	220	100	1800	23½	41½	\$16.00	34024	36335	133	220	135	1750	26	44	\$18.50



Desk Motor (Oscillating)

OSCILLATING FAN MOTORS

TWELVE-INCH FANS

SIXTEEN-INCH FANS

75433	75445	25	110	57	1325	27	45	\$20.50	75434	75446	25	110	108	1275	29½	47½	\$23.50
75431	75443	40	120	73	1725	27	45	\$19.50	75432	75444	40	120	136	1725	29½	47½	\$22.50
75423	75435	60	110	48	1550	27	45	\$20.00	75425	75437	60	110	83	1550	29½	47½	\$22.00
75424	75436	60	220	48	1550	27	45	\$20.00	75426	75438	60	220	83	1550	29½	47½	\$23.00
75427	75439	133	110	103	1775	27	45	\$19.00	75429	75441	133	110	138	1725	29½	47½	\$22.00
75428	75440	133	220	103	1775	27	45	\$20.00	75430	75442	133	220	138	1725	29½	47½	\$23.00

Add one pound to the above weights for the weight of Bracket Fans.

DIRECT CURRENT TWELVE- AND SIXTEEN-INCH DESK AND WALL BRACKET FAN MOTORS

Finish. Frame and base of motor finished in black japan; guard, blades and trimmings finished in dipped and lacquered brass.

Range of Operation. Motors can be operated satisfactorily on circuits the voltage variation of which is not more than 10 per cent. above or below the rated voltage.

Speeds. These motors are equipped with a four-point regulating switch which provides three running speeds.

Adjustment. Adjustable both horizontally and vertically. The motor may be instantly transformed into a desk or bracket motor by use of the universal joint.

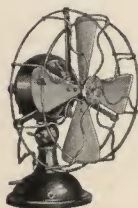
UNIVERSAL JOINT FAN MOTORS

TWELVE-INCH FANS

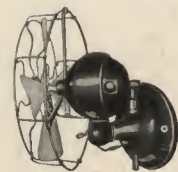
Cat. No.	Volts	Watts	Speeds	APPROX. WT.		Net Retail Price
				Net	Ship.	
34003	115	50	1550-1200-1000	21½	35	\$13.50
34004	230	60	1550-1200-1000	21½	35	\$14.50

SIXTEEN-INCH FANS

34005	115	100	1550-1200- 900	31	51	\$15.50
34006	230	115	1550-1200- 900	31	51	\$16.50



Desk Motor (Standard)



Wall Bracket Motor (Standard)

FAN MOTORS

DIRECT CURRENT TWELVE-AND SIXTEEN-INCH DESK AND WALL BRACKET

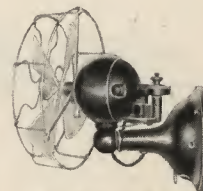
FAN MOTORS (Concluded)

OSCILLATING FAN MOTORS
TWELVE-INCH FANSDesk Motor
(Oscillating)

Cat. No.	Volts	Watts	Speeds	APPROX. WT.		Net Retail Price
				Net	Ship.	
60559	115	50	1550-1200-1000	22½	36	\$17.00
60560	230	60	1550-1200-1000	22½	36	18.00

SIXTEEN-INCH FANS

60561	115	100	1550-1200- 900	32	52	\$20.00
60562	230	115	1550-1200- 900	32	52	21.00

Wall Bracket Motor
(Oscillating)ALTERNATING CURRENT ORNAMENTAL AND PLAIN TYPE CEILING, FLOOR, AND COUNTER
COLUMN FAN MOTORS, FOUR BLADE FANS, FIFTY-TWO INCH SWEEP

Suspensions. Unless otherwise specified on the order, Style "B" adjustable suspension for 10½ to 12 foot ceilings will be furnished with all ornamental type Ceiling Fans. (For other heights of ceilings see Page 91.) Plain Type Ceiling Fans are furnished with hanger hook and ceiling canopy but without suspension rod. A table giving the necessary lengths of suspensions for various heights of ceilings, will be found on Page 90.

Column Fans are furnished complete with counter flange or floor plate standards and ornamental ball for top of motor.

Electrolier Attachments. All Ceiling and Column Fans are wired for two or four lights. Catalogue numbers do not include sockets or any other electrolier fittings. Nipples permitting the attachment of sockets will be furnished with all ceiling and column fan motors at 50 cents per set of four, if desired.

Range of Voltage. Alternating Current, 105 volt, 50 and 60 cycle motors are designed to operate within a range of 100 to 110 volts.

115 volt, 50 and 60 cycle motors are designed to operate within a range of 112 to 120 volts.

220 volt, 50 and 60 cycle motors are designed to operate within a range of 210 to 230 volts.

110 volt, 25 cycle, and 120 volt, 40 cycle motors are designed to operate satisfactorily on circuits having a variation of 5 per cent. above or below normal, but the sum of the two variations should not exceed 5 per cent.

Range of Frequencies. Motors can be furnished for use on 25, 40, 50 and 60 cycle circuits, but will not be furnished for higher frequencies. They can be operated satisfactorily on frequencies having a variation of 5 per cent. above or below normal, but the sum of the variations should not exceed 5 per cent.

Speeds. Plain Type Ceiling and Column Motors are equipped with a three-point regulating switch which provides two running speeds.

Ornamental Type Ceiling and Column Motors are equipped with a four-point regulating switch which provides three running speeds.

Blades. All motors are equipped with four blades having a fifty-two inch sweep.

Two-blade motors can be furnished whenever desired at same price as four-blade.

DIRECT CURRENT ORNAMENTAL AND PLAIN TYPE CEILING, FLOOR AND COUNTER
COLUMN FAN MOTORS, FOUR-BLADE FANS, FIFTY-EIGHT INCH SWEEP

Suspensions. Unless otherwise specified on the order, Style "B" adjustable suspension for 10½ to 12 foot ceilings will be furnished with all ornamental type Ceiling Fans. (For greater lengths see Page 91.)

Plain Type Ceiling Fans are furnished with hanger, hook and ceiling canopy, but without suspension rod.

A table giving the necessary lengths of suspensions, for various heights of ceilings, will be found on Page 90.

Column Fans are furnished complete with counter flange or floor plate standard, and ornamental ball for the top of the motor.

Electrolier Attachments. All Ceiling and Column Fans are wired for two or four lights. Catalogue numbers do not include sockets or any other electrolier fittings. Nipples permitting the attachment of sockets will be furnished with all ceiling and column fan motors at 50 cents per set of four if desired.

Range of Voltage. Motors can be operated satisfactorily on circuits the voltage variation of which is not more than 10 per cent. above or below the rated voltage.

Speeds. Plain Type Ceiling and Column Motors are furnished for one speed only and are equipped with a starting and stopping switch. Ornamental Type Ceiling and Column Motors are furnished for single and three speeds.

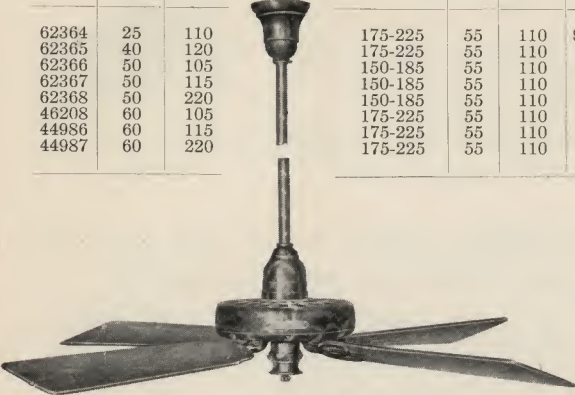
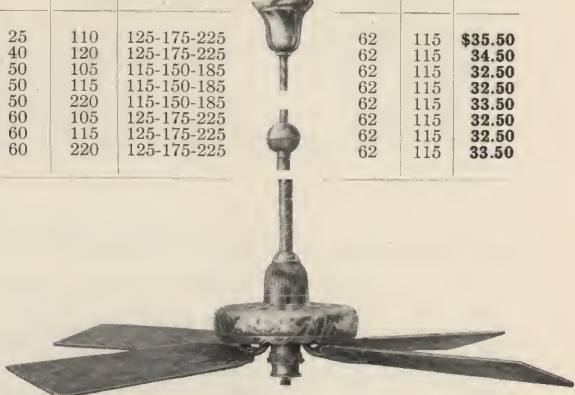
Single-Speed Motors are equipped with a starting and stopping switch which provides one running speed only.

Three-Speed Motors are equipped with a four-point regulating switch which provides three running speeds only.

Blades. All motors are equipped with four blades having a fifty-eight inch sweep. Two-blade motors can be furnished whenever desired at the same price as four-blade.

FAN MOTORS

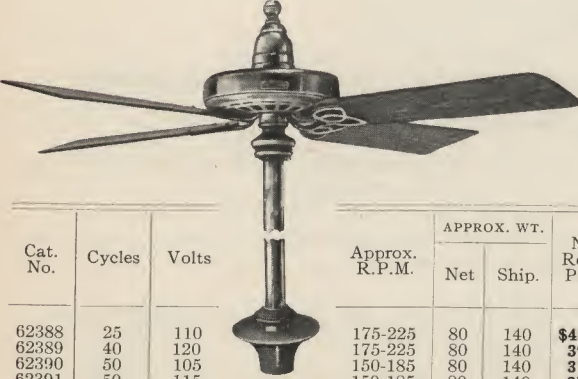
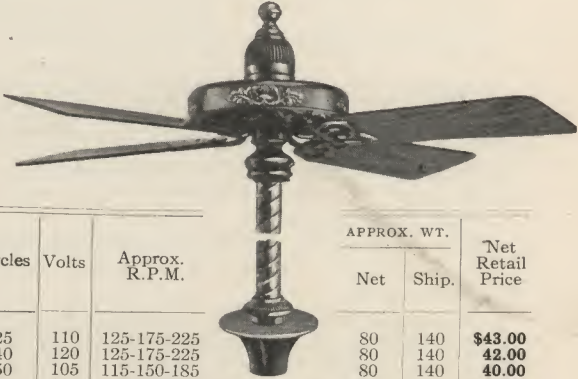
ALTERNATING CURRENT CEILING FAN MOTORS, FOUR-BLADE FANS,
FIFTY-TWO INCH SWEEP

Cat. No.	Cycles	Volts	Plain Type	Approx. R.P.M.	APPROX. WT.		Retail Price	Cat. No.	Cycles	Volts	Approx. R.P.M.	Ornamental Type	APPROX. WT.		Net Retail Price
					Net	Ship.							Net	Ship.	
62364	25	110		175-225	55	110	\$32.50	62359	25	110	125-175-225		62	115	\$35.50
62365	40	120		175-225	55	110	31.50	62360	40	120	125-175-225		62	115	34.50
62366	50	105		150-185	55	110	29.50	62361	50	105	115-150-185		62	115	32.50
62367	50	115		150-185	55	110	29.50	62362	50	115	115-150-185		62	115	32.50
62368	50	220		150-185	55	110	30.50	62363	50	220	115-150-185		62	115	33.50
46208	60	105		175-225	55	110	29.50	46209	60	105	125-175-225		62	115	32.50
44986	60	115		175-225	55	110	29.50	44988	60	115	125-175-225		62	115	32.50
44987	60	220		175-225	55	110	30.50	44989	60	220	125-175-225		62	115	33.50

Plain Finish. Motor body finished in black japan; bottom cover, blade flanges, switch cover and switch support finished in streaked oxidized copper. Approximate maximum current consumed at fast speed, 140 watts. For further specifications see page 87.

Ornamental Finish. Complete in streaked oxidized copper. Approximate maximum current consumed at fast speed, 140 watts. For further specifications see page 87.

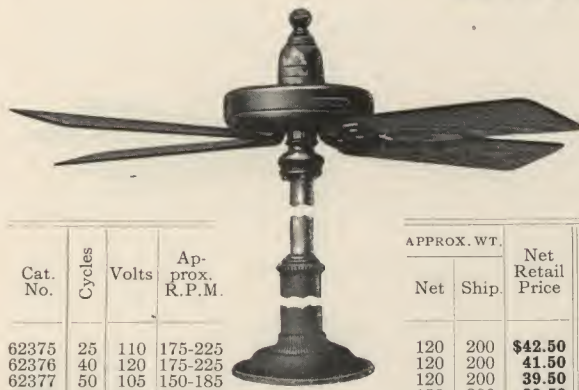
ALTERNATING CURRENT COUNTER COLUMN FAN MOTORS, FOUR-BLADE FANS
FIFTY-TWO INCH SWEEP

Cat. No.	Cycles	Volts	Plain Type	Approx. R.P.M.	APPROX. WT.		Net Retail Price	Cat. No.	Cycles	Volts	Approx. R.P.M.	Ornamental Type	APPROX. WT.		Net Retail Price
					Net	Ship.							Net	Ship.	
62388	25	110		175-225	80	140	\$40.00	62380	25	110	125-175-225		80	140	\$43.00
62389	40	120		175-225	80	140	39.00	62381	40	120	125-175-225		80	140	42.00
62390	50	105		150-185	80	140	37.00	62382	50	105	115-150-185		80	140	40.00
62391	50	115		150-185	80	140	37.00	62383	50	115	115-150-185		80	140	40.00
62392	50	220		150-185	80	140	38.00	62384	50	220	115-150-185		80	140	41.00
62393	60	105		175-225	80	140	37.00	62385	60	105	125-175-225		80	140	40.00
62394	60	115		175-225	80	140	37.00	62386	60	115	125-175-225		80	140	40.00
62395	60	220		175-225	80	140	38.00	62387	60	220	125-175-225		80	140	41.00

Plain Finish. Motor body finished in black japan; bottom cover, blade flanges, switch cover, canopies and standard finished in streaked oxidized copper. Height from bottom of blades to counter, five feet. Approximate maximum current consumed at fast speed, 140 volts. For further specifications see page 87.

Ornamental Finish. Complete in streaked oxidized copper. Height from bottom of blades to counter, five feet. Approximate maximum current consumed at fast speed, 140 watts. For further specifications see page 87.

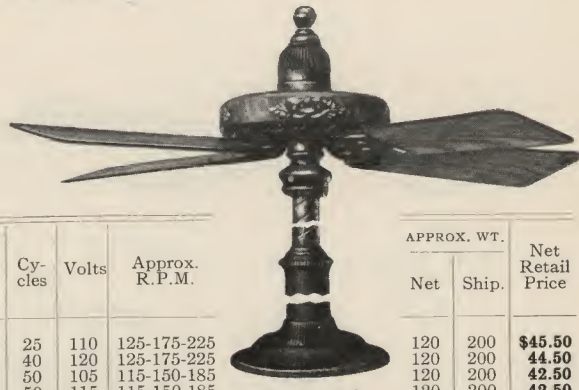
FAN MOTORS

ALTERNATING CURRENT FLOOR COLUMN FAN MOTORS, FOUR-BLADE FANS
FIFTY-TWO INCH SWEEP

Plain Type

Cat. No.	Cycles	Volts	Approx. R.P.M.
62375	25	110	175-225
62376	40	120	175-225
62377	50	105	150-185
62378	50	115	150-185
62379	50	220	150-185
46210	60	105	175-225
44990	60	115	175-225
44991	60	220	175-225

APPROX. WT.		Net Retail Price	Cat. No.	Cycles	Volts	Approx. R.P.M.
Net	Ship.					
120	200	\$42.50	62369	25	110	125-175-225
120	200	41.50	62370	40	120	125-175-225
120	200	39.50	62372	50	105	115-150-185
120	200	39.50	62373	50	115	115-150-185
120	200	40.50	62374	50	220	115-150-185
120	200	39.50	46211	60	105	125-175-225
120	200	39.50	44992	60	115	125-175-225
120	200	40.50	44993	60	220	125-175-225




Ornamental Type

APPROX. WT.		Net Retail Price
Net	Ship.	
120	200	\$45.50
120	200	44.50
120	200	42.50
120	200	42.50
120	200	43.50
120	200	42.50
120	200	42.50
120	200	43.50

Plain Finish. Motor body and lower half of standard finished in black japan; bottom cover, blade flanges, switch cover, canopy and upper half of standard finished in streaked oxidized copper. Height from bottom of blades to floor, seven and one-half feet. Approximate maximum energy consumed at fast speed, 140 watts. For further specifications see page 87.

Ornamental Finish. Motor and upper half of standard finished complete in streaked oxidized copper, the lower half of standard is marbled. Approximate maximum current consumed at fast speed, 140 watts. Height from bottom of blades to floor, seven and one-half feet. For further specifications see page 87.

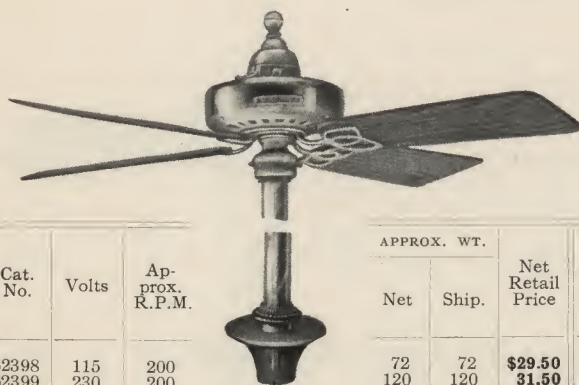
DIRECT CURRENT CEILING FAN MOTORS, FOUR-BLADE FANS
FIFTY-EIGHT INCH SWEEP

Cat. No.	Volts	Approx. R.P.M.	APPROX. WT.		Net Retail Price	Cat. No.	Volts	Approx. R.P.M.	Ornamental Type	AP-PROX. WT.	AP-PROX. WT.	Net Retail Price
			Net	Ship.						Net	Ship.	
34007	115	200	48	85	\$22.00	37642	115	200		54	90	\$26.00
34008	230	200	48	85	24.00	37643	230	200		54	90	28.00
						59433	115	100-150-200		54	90	28.00
						59434	230	100-150-200		54	90	30.00

Plain Finish. Motor body finished in black japan; bottom cover, blade flanges, canopies, switch cover and switch support finished in streaked oxidized copper. Approximate maximum current consumed at fast speed, 125 watts. For further specifications see page 87.

Ornamental Finish. Complete in streaked oxidized copper. Approximate maximum current consumed at fast speed, 125 watts. For further specifications see page 87.

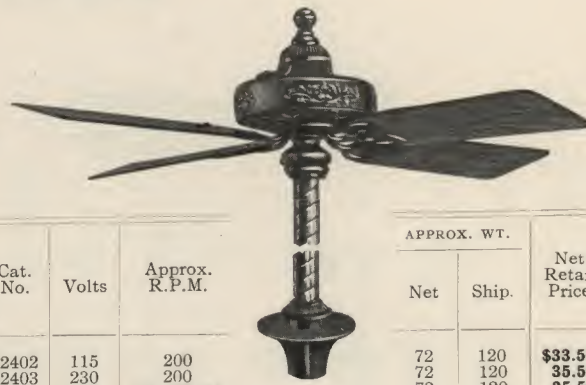
FAN MOTORS

DIRECT CURRENT COUNTER COLUMN FAN MOTORS, FOUR-BLADE FANS
FIFTY-EIGHT INCH SWEEP

Cat. No.	Volts	Approx. R.P.M.
62398	115	200
62399	230	200

Plain Type

APPROX. WT.		Net Retail Price
Net	Ship.	
72	72	\$29.50
120	120	31.50



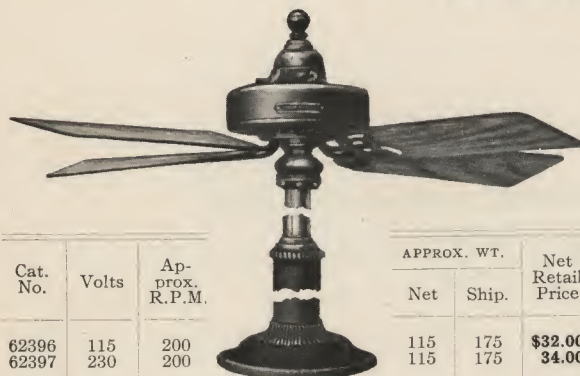
Cat. No.	Volts	Approx. R.P.M.
62402	115	200
62403	230	200
62407	115	100-150-200
62408	230	100-150-200

Ornamental Type

APPROX. WT.		Net Retail Price
Net	Ship.	
72	120	\$33.50
72	120	35.50
72	120	35.50
72	120	37.50

Plain Finish. Motor body finished in black japan; bottom cover, blade flanges, switch cover, canopy and standard finished in streaked oxidized copper. Height from counter to bottom of blades, five feet. Approximate maximum current consumed at fast speed, 125 watts.

Ornamental Finish. Complete in streaked oxidized copper. Height from counter to bottom of blades, five feet. Approximately maximum current consumed at fast speed, 125 watts. For further specifications see page 87.

DIRECT CURRENT FLOOR COLUMN FAN MOTORS, FOUR-BLADE FANS
FIFTY-EIGHT INCH SWEEP

Cat. No.	Volts	Approx. R.P.M.
62396	115	200
62397	230	200

Plain Type

APPROX. WT.		Net Retail Price
Net	Ship.	
115	175	\$32.00
115	175	34.00



Cat. No.	Volts	Approx. R.P.M.
62400	115	200
62401	230	200
62404	115	100-150-200
62406	230	100-150-200

Ornamental Type

APPROX. WT.		Net Retail Price
Net	Ship.	
115	175	\$36.00
115	175	38.00
115	175	38.00
115	175	40.00

Plain Finish. Motor body and lower half of standard finished in black japan, bottom cover, blade flanges, switch cover, canopy and upper half of standard finished in streaked oxidized copper. Height from floor to bottom of blades, seven and one-half feet. Approximate maximum current consumed at fast speed, 125 watts. For further specifications see page 87.

Ornamental Finish. Motor and upper half of standard finished complete in streaked oxidized copper; lower half of standard is marbleized. Height from floor to bottom of blades, seven and one-half feet. Approximate maximum current consumed at fast speed, 125 watts. For further specifications see page 87.

SUSPENSIONS FOR CEILING FANS

JAPANNED IRON PIPE FOR PLAIN TYPE CEILING FANS

Height of Ceiling	Length of Pipe Over all	Net Price	Height of Ceiling	Length of Pipe Over all	Net Price	Height of Ceiling	Length of Pipe Over all	Net Price	Height of Ceiling	Length of Pipe Over all	Net Price
8½ ft.	3½ in.	\$0.15	11 ft.	2 ft. 10 in.	\$0.45	13½ ft.	5 ft. 3 in.	\$0.90	16 ft.	7 ft. 10 in.	\$1.20
9 "	9½ "	.15	11½ "	3 " 3 "	.60	14 "	5 " 10 "	.90	16½ "	8 " 3 "	1.35
9½ "	15½ "	.30	12 "	3 " 10 "	.60	14½ "	6 " 3 "	1.05	17 "	8 " 10 "	1.35
10 "	21½ "	.30	12½ "	4 " 3 "	.75	15 "	6 " 10 "	1.05	17½ "	9 " 3 "	1.50
10½ "	2 ft. 3 in.	.45	13 "	4 " 10 "	.75	15½ "	7 " 3 "	1.20	18 "	9 " 10 "	1.50

These lengths hold switch handle approximately 7½ feet from the floor.

FAN MOTORS—SMALL POWER MOTORS

ADJUSTABLE HANGER FOR ORNAMENTAL TYPE CEILING FANS

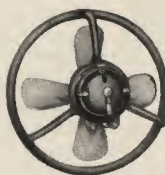
Style	Length of Hanger	Height of Ceiling	Add to Regular Price of Fan	Style	Length of Hanger	Height of Ceiling	Add to Regular Price of Fan
A	19 to 29 in	10 to 11 ft.	Included in	C	42 to 76 in	12 to 15 ft.	\$1.50 net
B	24 to 40 in	10½ to 12 ft.	Price of Fan	D	60 to 112 in.	15 to 18 ft.	3.00 net

These hangers are designed to hold switch handle 7½ ft. from floor.
 Style B hangers will be regularly furnished unless otherwise specified.
 For ceilings less than 10 ft. in height, a solid suspension with rope casing will be furnished.
 Solid suspensions covered with rope casing will be furnished, in place of adjustable suspensions, if desired, at an additional charge of 75 cents per foot, or fraction thereof, for ceilings higher than 12 feet.

VENTILATING FAN MOTORS

ALTERNATING CURRENT OUTFITS

Cat. No.	Diam. Fan	Cycles	Volts	List Price
35307	12"	25	110	\$27.00
35308	12"	40	120	25.00
34025	12"	60	110	24.00
34026	12"	60	220	26.00
58298	16"	25	110	33.00
58299	16"	40	120	31.00
34029	16"	60	110	30.00
34030	16"	60	220	32.00



DIRECT CURRENT OUTFITS

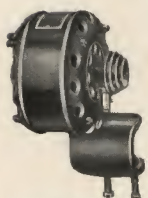
Cat. No.	Diam. Fan	Volts	List Price
34009	12"	115	\$23.00
34010	12"	230	25.00
34011	16"	115	31.00
34012	16"	230	33.00

SPEED CONTROLLERS FOR DIRECT CURRENT MOTORS

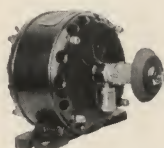
34034	12"	115	\$4.50
34035	12"	230	5.00
34036	16"	115	5.00
34037	16"	230	5.50

NOTE.—Speed Controllers can not be furnished for use with Alternating Current exhaust fan motors.

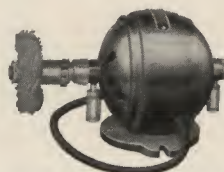
MISCELLANEOUS SMALL MOTORS FOR DIRECT AND ALTERNATING CURRENT



Sewing Machine Motor, $\frac{1}{30}$ H.P.



Alternating Current Buffing and Grinding Motor, $\frac{1}{30}$ H.P.



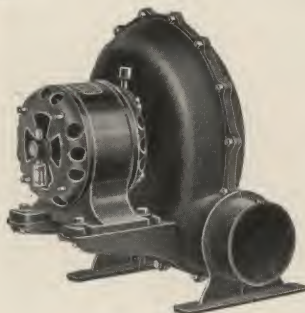
Direct Current Buffing and Grinding Motor, $\frac{1}{30}$ H.P.



Sewing Machine Motor, $\frac{1}{30}$ H.P.



Portable Electric Breast Drill



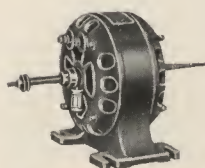
Blower Motor



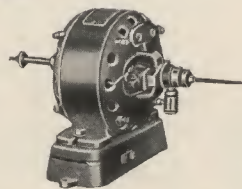
Direct Current Motor, $\frac{1}{15}$ H.P.



Alternating Current Motor, $\frac{1}{15}$ H.P.



Direct Current Buffing Motor, $\frac{1}{15}$ H.P.



Alternating Current Buffing Motor, $\frac{1}{15}$ H.P.



Direct Current Motor $\frac{1}{15}$ H.P.

RHEOSTATS

CR 107 MOTOR-STARTING RHEOSTATS

WITH NO-VOLTAGE RELEASE FOR USE WITH SHUNT, COMPOUND, OR SERIES WOUND MOTORS

These rheostats are for use with motors which will come to full speed in one minute at normal load. If rheostats are desired for use with motors overloaded in starting, or with motors which will not come to full speed within one minute, the General Electric Company's nearest district office will, if notified of the amount of starting current and time required for the motor to come to speed, furnish recommendations and prices relative to a heavy duty starting rheostat.

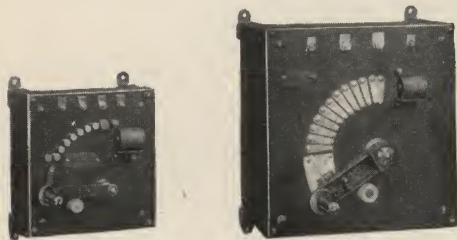


Fig. 1

Fig. 2

The accompanying illustrations show the two styles of CR 107 starting rheostats. Fig. 1 illustrates rheostats of from 2 to 7½ h.p., inc., 115 volts, 2 to 10 h.p., inc., 230 volts, and 2 to 15 h.p., inc., 550 volts. On these the circuit is made and broken on an auxiliary hexagonal button, which can be easily removed from the front of the rheostat. On rheostats of larger sizes, renewable segments shown in Fig. 2 are provided. Before it becomes necessary to replace these segments with new ones, they can be removed and the side next the slate turned outward; thus giving a double life to the segments.

No-Voltage Release—The retaining magnet of the no-voltage release is connected directly across the line in series with a high resistance. By this method any of the General Electric starting rheostats can be used on either shunt, compound, or series wound motors of a given horse-power and voltage.

Resistance—In small and medium sizes (namely, up to and including 15 h.p. 115 volts, 30 h.p. 230 volts, and 35 h.p. 550 volts) the General Electric Company's well known ventilated type of tube resistance (CR 187 Form P) is used. In larger sizes the resistance is of the cast grid type.

Insulation—The problem of proper insulation where tube resistance is used has been solved in CR 107 Rheostats by the use of beaded insulation on the internal leads and the reinforcing of the resistance units with porcelain bushings to serve as supports. The rheostats are thus rendered perfectly free from grounds and absolutely fireproof.

These rheostats are for use with motors which will reach full speed within one minute at normal load; and are provided with self aligning switches which insure perfect electrical contact and can be readily renewed without removing the switch arm from the slate.

The connections are such that when the circuit is opened the motor field is discharged through the motor armature and starting resistance. The starting resistance, however, is not in series with the shunt field when the rheostat switch is in the running position.

THE FOLLOWING PRICES COVER THE RHEOSTATS COMPLETE

115 VOLTS

Cat. No.	Motor H.P.	List Price	Cat. No.	Motor H.P.	List Price	Cat. No.	Motor H.P.	List Price
45422	1/8	\$5.00	45427	2	\$6.60	45432	15	\$30.00
45423	1/4	5.00	45428	3	7.30	45433	20	33.00
45424	1/2	6.60	45429	5	12.20	45434	25	39.00
45425	3/4	6.60	45430	7 1/2	19.40	45435	30	44.00
45426	1	6.60	45431	10	23.20	45436	35	48.00

230 VOLTS

45437	1/8	\$5.00	45443	3	\$7.30	45449	25	\$33.00
45438	1/4	5.00	45444	5	11.00	45450	30	39.00
45439	1/2	6.60	45445	7 1/2	14.00	45451	35	42.00
45440	3/4	6.60	45446	10	16.00	45452	40	48.00
45441	1	6.60	45447	15	22.00	45453	50	60.00
45442	2	6.60	45448	20	30.00			

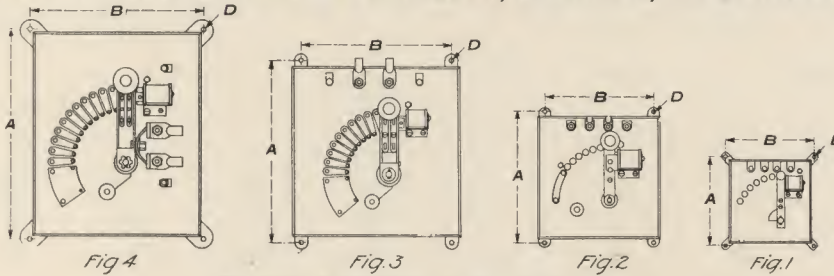
550 VOLTS

45454	1/8	\$5.50	45460	3	\$7.50	45466	25	\$30.00
45455	1/4	5.50	45461	5	11.00	45467	30	36.00
45456	1/2	7.00	45462	7 1/2	14.00	45468	35	42.00
45457	3/4	7.00	45463	10	16.00	45469	40	48.00
45458	1	7.00	45464	15	22.00	45470	50	60.00
45459	2	7.00	45465	20	27.00			

RHEOSTATS

CR 107 MOTOR-STARTING RHEOSTATS

WITH NO-VOLTAGE RELEASE FOR USE WITH SHUNT, COMPOUND, OR SERIES WOUND MOTORS

C=Overall depth from handle to foot
DIMENSIONSNOT SUITABLE FOR MOTORS OVERLOADED IN STARTING OR MOTORS WHICH WILL NOT
COME TO FULL SPEED WITHIN ONE MINUTE

115 VOLTS

230 VOLTS

Cat. No. CR 107 Rheo- stats	Motor H.P.	Apprx. Ship- ping Wt. Lb.	Fig.	DIMENSIONS IN INCHES				Cat. No. CR 107 Rheo- stats	Motor H.P.	Apprx. Ship- ping Wt. Lb.	Fig.	DIMENSIONS IN INCHES			
				Drilling		Dept	Size Hole					Drilling		Dept	Size Hole
				A	B							*C	D			A	B	*C	D
45422	1 1 1 1 1 2 3 5 7 $\frac{1}{2}$	15	1	6	6	5 $\frac{3}{16}$	1 $\frac{1}{4}$	45437	1 1 1 1 1 2 3 5 7 $\frac{1}{2}$	15	1	6	6	5 $\frac{3}{16}$	1 $\frac{1}{4}$
45423			1	6	6	5 $\frac{5}{16}$	1 $\frac{1}{4}$	45438			1	6	6	5 $\frac{5}{16}$	1 $\frac{1}{4}$
45424			1	6	6	5 $\frac{7}{16}$	1 $\frac{1}{4}$	45439			1	6	6	5 $\frac{7}{16}$	1 $\frac{1}{4}$
45425			1	6	6	5 $\frac{9}{16}$	1 $\frac{1}{4}$	45440			1	6	6	5 $\frac{9}{16}$	1 $\frac{1}{4}$
45426	2 3 5 7 $\frac{1}{2}$	21	2	9	6	5 $\frac{5}{16}$	1 $\frac{1}{4}$	45441	2 3 5 7 $\frac{1}{2}$	21	2	9	6	5 $\frac{5}{16}$	1 $\frac{1}{4}$
45427			2	9	7	6 $\frac{1}{16}$	3 $\frac{3}{8}$	45442			2	9	7	6 $\frac{1}{16}$	3 $\frac{3}{8}$
45428			2	9	7	6 $\frac{3}{16}$	3 $\frac{3}{8}$	45443			2	9	7	6 $\frac{3}{16}$	3 $\frac{3}{8}$
45429			2	9	7	6 $\frac{5}{16}$	3 $\frac{3}{8}$	45444			2	9	7	6 $\frac{5}{16}$	3 $\frac{3}{8}$
45430	10 15 20 25 30 35	38	3	9	7	7 $\frac{1}{16}$	3 $\frac{3}{8}$	45445	10 15 20 25 30 35	38	3	9	7	7 $\frac{1}{16}$	3 $\frac{3}{8}$
45431			3	13	11	9 $\frac{1}{16}$	3 $\frac{3}{8}$	45446			3	13	11	9 $\frac{1}{16}$	3 $\frac{3}{8}$
45432			3	13	11	11 $\frac{1}{16}$	3 $\frac{3}{8}$	45447			3	13	11	11 $\frac{1}{16}$	3 $\frac{3}{8}$
45433			4	17	14	12 $\frac{3}{16}$	3 $\frac{3}{8}$	45448			4	17	14	12 $\frac{3}{16}$	3 $\frac{3}{8}$
45434	17 17 17 17 17 17	136	4	17	14	12 $\frac{5}{16}$	3 $\frac{3}{8}$	45449	17 17 17 17 17 17	96	4	17	14	12 $\frac{5}{16}$	3 $\frac{3}{8}$
45435			4	17	14	12 $\frac{7}{16}$	3 $\frac{3}{8}$	45450			4	17	14	12 $\frac{7}{16}$	3 $\frac{3}{8}$
45436			4	17	14	17 $\frac{1}{16}$	3 $\frac{3}{8}$	45451			4	17	14	17 $\frac{1}{16}$	3 $\frac{3}{8}$
			4	17	14	17 $\frac{3}{16}$	3 $\frac{3}{8}$	45452			4	17	14	17 $\frac{3}{16}$	3 $\frac{3}{8}$
								45453			4	17	14	17 $\frac{5}{16}$	3 $\frac{3}{8}$

550 VOLTS

45454	1	15	1	6	6	5 ³ / ₁₆	1 ¹ / ₄	45463	10	45	2	9	7	9 ¹ / ₁₆	3 ³ / ₈
45455	1		1	6	6	5 ⁵ / ₁₆	1 ¹ / ₄	45464	15	90	2	9	7	9 ³ / ₁₆	3 ³ / ₈
45456	1		1	6	6	5 ⁷ / ₁₆	1 ¹ / ₄	45465	20	90	3	13	11	11 ¹ / ₁₆	3 ³ / ₈
45457	1		1	6	6	5 ⁹ / ₁₆	1 ¹ / ₄	45466	25	96	3	13	11	11 ³ / ₁₆	3 ³ / ₈
45458	2	21	2	9	7	6 ¹ / ₁₆	3 ³ / ₈	45467	30	98	3	13	11	11 ⁵ / ₁₆	3 ³ / ₈
45459	3		2	9	7	6 ³ / ₁₆	3 ³ / ₈	45468	35	190	3	13	11	11 ⁷ / ₁₆	3 ³ / ₈
45460	5		2	9	7	6 ⁵ / ₁₆	3 ³ / ₈	45469	40	175	4	17	14	17 ¹ / ₁₆	3 ³ / ₈
45461	7 ¹ / ₂		2	9	7	7 ¹ / ₁₆	3 ³ / ₈	45470	50	175	4	17	14	17 ³ / ₁₆	3 ³ / ₈

* Overall depth from handle to foot.

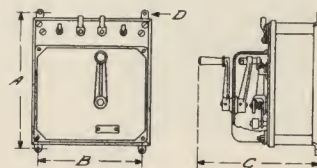
CR 108 ENCLOSING COVERS FOR MOTOR-STARTING RHEOSTATS

There are many places such as flour mills, etc., where even the slight arcing which takes place at the contact buttons on a motor-starter becomes a source of danger, and the absolute protection of motor-starters is necessary.

The covers here listed are made in four different sizes, and are applicable to the entire line of CR 107, CR 111, CR 133, CR 134 and CR 135, from $\frac{1}{2}$ to 50 h.p., inclusive, with two exceptions, namely, the covers cannot be applied to CR 111 and CR 134 starters, in sizes $\frac{1}{2}$ to 1 h.p., inclusive. These covers may be ordered separately from the starters for which they are to be used, when necessary, but should always be ordered with the starting rheostats, if possible.

Rheostat with Cover
in Place

HORSE-POWER RATINGS OF CR 107, *111, 133, *134 AND 135 RHEOSTATS			List Price
115 Volts	230 Volts	550 Volts	
$\frac{1}{2}$ to 1 incl.	$\frac{1}{2}$ to 1 incl.	$\frac{1}{2}$ to 1 incl.	\$2.20
2 to 7 ¹ / ₂ incl.	2 to 10 incl.	2 to 15 incl.	2.80
10 to 15 incl.	15 to 30 incl.	20 to 35 incl.	4.80
20 to 35 incl.	35 to 50 incl.	40 to 50 incl.	6.40



RHEOSTATS

DIMENSIONS OF CR 108 ENCLOSING COVERS FOR MOTOR-STARTING RHEOSTATS

115 VOLTS

Motor H.P.	DIMENSIONS IN INCHES				Motor H.P.	DIMENSIONS IN INCHES			
	Drilling		Depth	Size of Hole		Drilling		Depth	Size of Hole
	A	B	C	D		A	B	C	D
1	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	7 $\frac{1}{2}$	9 $\frac{1}{8}$	7 $\frac{3}{8}$	8 $\frac{3}{8}$	1 $\frac{1}{8}$
2	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	10	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
3	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	15	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
5	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	20	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	25	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	30	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	35	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$

230 VOLTS

Motor H.P.	DIMENSIONS IN INCHES				Motor H.P.	DIMENSIONS IN INCHES			
	Drilling		Depth	Size of Hole		Drilling		Depth	Size of Hole
	A	B	C	D		A	B	C	D
1	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	7 $\frac{1}{2}$	9 $\frac{1}{8}$	7 $\frac{3}{8}$	8 $\frac{3}{8}$	1 $\frac{1}{8}$
2	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	10	9 $\frac{1}{8}$	7 $\frac{3}{8}$	8 $\frac{3}{8}$	1 $\frac{1}{8}$
3	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	15	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
5	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	20	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	25	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	30	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	35	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	40	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	50	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$

550 VOLTS

Motor H.P.	DIMENSIONS IN INCHES				Motor H.P.	DIMENSIONS IN INCHES			
	Drilling		Depth	Size of Hole		Drilling		Depth	Size of Hole
	A	B	C	D		A	B	C	D
1	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	7 $\frac{1}{2}$	9 $\frac{1}{8}$	7 $\frac{3}{8}$	8 $\frac{3}{8}$	1 $\frac{1}{8}$
2	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	10	9 $\frac{1}{8}$	7 $\frac{3}{8}$	8 $\frac{3}{8}$	1 $\frac{1}{8}$
3	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	15	9 $\frac{1}{8}$	7 $\frac{3}{8}$	8 $\frac{3}{8}$	1 $\frac{1}{8}$
5	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	20	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	25	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	30	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	35	13 $\frac{1}{8}$	11 $\frac{1}{8}$	12 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	40	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$
	6 $\frac{1}{8}$	6 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	50	17 $\frac{1}{8}$	14 $\frac{1}{8}$	16 $\frac{1}{8}$	1 $\frac{1}{8}$

* Cover cannot be used for CR 111 and CR 134 types of Motor Starting Rheostats $\frac{1}{2}$ to 1 H.P. inc.

CR 109 MOTOR-STARTING RHEOSTATS

WITH NO-VOLTAGE RELEASE FOR USE WITH SHUNT, COMPOUND, OR SERIES WOUND MOTORS

For starting motors larger than those for which the CR 107 rheostats are listed and for purposes for which the construction used in the CR 137 is not required, the General Electric Company recommends the CR 109 rheostat here illustrated. This starter comprises a knife-blade type of dial switch so interlocked with a solenoid line switch as to provide no-voltage release as well as positive making and breaking of the circuit.



Fig. 1
CR 109 Motor Starting
Rheostat

To start the motor a slight turn of the switch handle to the right will close the circuit of the solenoid winding when the dial switch is in the initial starting position as shown in the illustration. The solenoid switch thereupon picks up, closing the motor circuit through the starting resistance. Therefore the motor circuit is not made or broken on the dial switch and no arcing can possibly occur thereon.

The latch which retains the starting arm in the running position closes the circuit of the solenoid winding, preventing the solenoid switch from opening when the handle is released.

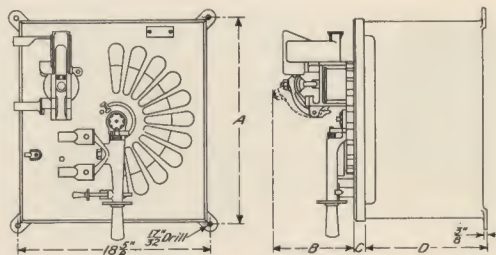
The solenoid switch when once opened can be closed again only with the starting arm at the initial starting point.

The resistance used is of the cast iron grid type and is designed for a one minute starting period at full load current.

DIMENSIONS

115 VOLTS

Cat. No.	Motor H.P.	DIMENSIONS IN INCHES				List Price
		A	B	C	D	
60023	40	20 $\frac{1}{2}$	8 $\frac{1}{2}$	1	9	\$108.00
60024	45	20 $\frac{1}{2}$	8 $\frac{1}{2}$	1	9	110.00
60025	50	20 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	9	118.00
60026	55	20 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	9	120.00
60027	60	20 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	9	125.00
60028	75	20 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	9	135.00



RHEOSTATS

DIMENSIONS OF CR 109 MOTOR-STARTING RHEOSTATS

230 VOLTS

550 VOLTS

Cat. No.	Motor H.P.	DIMENSIONS IN INCHES				List Price	Cat. No.	Motor H.P.	DIMENSIONS IN INCHES				List Price
		A	B	C	D				A	B	C	D	
60029	50	20 $\frac{1}{8}$	8 $\frac{1}{2}$	1	9	\$108.00	60037	50	17 $\frac{1}{8}$	5 $\frac{1}{2}$	1	12	\$100.00
60030	55	20 $\frac{1}{8}$	8 $\frac{1}{2}$	1	9	110.00	60038	55	17 $\frac{1}{8}$	5 $\frac{1}{2}$	1	12	108.00
60031	60	20 $\frac{1}{8}$	8 $\frac{1}{2}$	1	9	120.00	60039	60	17 $\frac{1}{8}$	8 $\frac{1}{2}$	1	12	115.00
60032	75	20 $\frac{1}{8}$	8 $\frac{1}{2}$	1	9	130.00	60040	75	17 $\frac{1}{8}$	8 $\frac{1}{2}$	1	12	125.00
60033	85	20 $\frac{1}{8}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	9	150.00	60041	85	17 $\frac{1}{8}$	8 $\frac{1}{2}$	1	12	135.00
60034	100	20 $\frac{1}{8}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	9	155.00	60042	100	17 $\frac{1}{8}$	8 $\frac{1}{2}$	1	12	140.00
60035	125	20 $\frac{1}{8}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	9	170.00	60043	125	17 $\frac{1}{8}$	8 $\frac{1}{2}$	1	12	150.00
60036	150	20 $\frac{1}{8}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	9	185.00	60044	150	17 $\frac{1}{8}$	8 $\frac{1}{2}$	1	12	160.00

CR 111 MOTOR-STARTING RHEOSTATS

WITH NO-VOLTAGE AND OVERLOAD RELEASE FOR USE WITH SHUNT, COMPOUND, OR SERIES WOUND MOTORS

THE FOLLOWING PRICES COVER THE RHEOSTATS COMPLETE

115 VOLTS

Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price
47581	1 $\frac{1}{2}$	\$10.60	47585	1	\$10.60	47589	7 $\frac{1}{2}$	\$24.40	47593	25	\$46.00
47582	1 $\frac{1}{2}$	10.60	47586	2	10.60	47590	10	30.20	47594	30	54.00
47583	1 $\frac{1}{2}$	10.60	47587	3	11.30	47591	15	37.00	47595	35	58.00
47584	1 $\frac{1}{2}$	10.60	47588	5	16.20	47592	20	40.00			

230 VOLTS

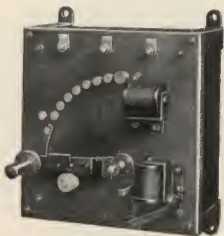
Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price
47596	1 $\frac{1}{2}$	\$10.60	47601	2	\$10.60	47605	10	\$21.00	47609	30	\$48.00
47597	1 $\frac{1}{2}$	10.60	47602	3	11.30	47606	15	28.00	47610	35	52.00
47598	1 $\frac{1}{2}$	10.60	47603	5	15.00	47607	20	37.00	47611	40	58.00
47599	1 $\frac{1}{2}$	10.60	47604	7 $\frac{1}{2}$	19.60	47608	25	40.00	47612	50	70.00
47600	1	10.60									

550 VOLTS

Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price	Cat. No.	H.P.	List Price
47613	1 $\frac{1}{2}$	\$11.00	47618	2	\$11.00	47622	10	\$21.00	47626	30	\$44.00
47614	1 $\frac{1}{2}$	11.00	47619	3	11.50	47623	15	28.00	47627	35	50.00
47615	1 $\frac{1}{2}$	11.00	47620	5	15.00	47624	20	34.00	47628	40	56.00
47616	1 $\frac{1}{2}$	11.00	47621	7 $\frac{1}{2}$	19.60	47625	25	37.00	47629	50	68.00
47617	1	11.00									

CR 111 Rheostats are for use with motors which will reach full speed within one minute at normal load. They are the same as CR 107 Rheostats in every way except that each rheostat is provided with an overload release coil.

For dimensions see page 93.



CR 120 SELF-STARTING RHEOSTATS

FOR SHUNT, COMPOUND, OR SERIES WOUND MOTORS

These rheostats are designed for use with motor-driven pumps where it is desirable to automatically start and stop the motors, depending upon a predetermined change in fluid level pressure, or air pressure. They may be used for starting and stopping motors by hand control from points remote from the motor, if desirable. In all sizes illustrated in Fig. 1, the motor circuit is closed by a small switch shown in the upper right hand corner. In the sizes illustrated in Fig. 2 for large motors, the switch is replaced by a contactor.

For large motors the type shown in Fig. 3 is used. In this style a master solenoid moves the switch arm over the contacts automatically operating a series of contactors, thus cutting the resistance out of the motor circuit. By this means objectionable arcing is avoided, all arcing taking place in the contactors.

The solenoid and starting resistances are designed to start the motor at normal load at intervals of four minutes, with a 15 second starting period. Should the motor accelerate in less time at normal load, the frequency of starting may be proportionately increased.

On all sizes a dashpot is provided by which the acceleration of the motor when starting may be changed.



Fig. 1

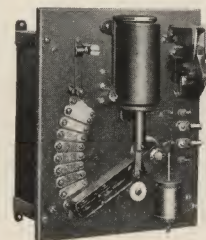


Fig. 2

RHEOSTATS

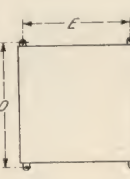
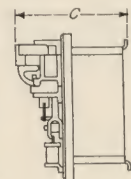
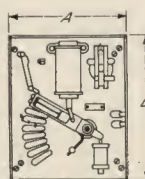
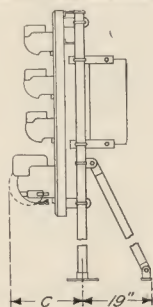
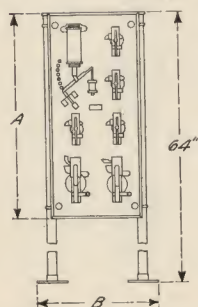
CR 120 SELF-STARTING RHEOSTATS (Continued)

FOR SHUNT, COMPOUND, OR SERIES WOUND MOTORS

THE FOLLOWING PRICES COVER THE DEVICES COMPLETE, EXCLUSIVE OF FLOAT SWITCH, PRESSURE GOVERNOR, AND REMOTE SMALL SWITCH FOR HAND CONTROL



Fig. 3



115 VOLTS				230 VOLTS				550 VOLTS			
Cat. No.	H.P.	List Price	Fig.	Cat. No.	H.P.	List Price	Fig.	Cat. No.	H.P.	List Price	Fig.
59501	1	\$70.00	1	59522	1	\$74.00	1	59543	1	\$88.00	1
59502	2	70.00	1	59523	2	75.00	1	59544	2	88.00	1
59503	3	72.00	1	59524	3	77.00	1	59545	3	90.00	1
59504	5	76.00	2	59525	5	85.00	1	59546	5	98.00	1
59505	7.5	90.00	2	59526	7.5	95.00	2	59547	7.5	105.00	2
59506	10	95.00	2	59527	10	100.00	2	59548	10	105.00	2
59507	15	120.00	3	59528	15	100.00	2	59549	15	110.00	2
59508	20	250.00	3	59529	20	115.00	3	59550	20	120.00	3
59509	25	270.00	3	59530	25	300.00	3	59551	25	250.00	3
59510	30	300.00	3	59531	30	300.00	3	59552	30	280.00	3
59511	35	300.00	3	59532	35	300.00	3	59553	35	280.00	3
59512	40	300.00	3	59533	40	300.00	3	59554	40	280.00	3
59513	45	300.00	3	59534	45	300.00	3	59555	45	280.00	3
59514	50	340.00	3	59535	50	330.00	3	59556	50	350.00	3
59515	60	590.00	3	59536	60	360.00	3	59557	60	350.00	3
59516	70	590.00	3	59537	70	360.00	3	59558	70	350.00	3
59517	75	590.00	3	59538	75	360.00	3	59559	75	350.00	3
59518	90	650.00	3	59539	90	450.00	3	59560	90	420.00	3
59519	100	650.00	3	59540	100	450.00	3	59561	100	420.00	3
59520	125	790.00	3	59541	125	730.00	3	59562	125	490.00	3
59521	150	1080.00	3	59542	150	800.00	3	59563	150	550.00	3

115 VOLTS					230 VOLTS					550 VOLTS				
Cat. No.	H.P. of Motor	DIMENSIONS IN INCHES			Cat. No.	H.P. of Motor	DIMENSIONS IN INCHES			Cat. No.	H.P. of Motor	DIMENSIONS IN INCHES		
		A	B	C			A	B	C			A	B	C
59507	15	28	19	9	59529	20	28	19	9	59550	20	28	19	9
59508	20	36	19	11	59530	25	28	19	9	59551	25	28	19	9
59509	25	36	19	11	59531	30	28	19	9	59552	30	28	19	9
59510	30	36	19	11	59532	35	36	19	11	59553	35	28	19	9
59511	35	36	19	11	59533	40	36	19	11	59554	40	28	19	9
59512	40	36	19	11	59534	45	36	19	11	59555	45	28	19	9
59513	45	48	21	13	59535	50	36	19	11	59556	50	28	19	9
59514	50	48	21	13	59536	60	36	19	11					
59515	60	48	21	13	59537	70	36	19	11					
59516	70	48	21	13	59538	75	36	19	11					
59517	75	48	21	13	59539	90	36	19	11					
59518	90	56	27	14	59540	100	48	21	13					
59519	100	56	27	14	59541	125	48	21	13					
59520	125	56	27	14	59542	150	48	21	13					
59521	150	56	27	14										

115 VOLTS					230 VOLTS					550 VOLTS				
Cat. No.	H.P. of Motor	Panel Form	A	B	C	D	E	Cat. No.	H.P. of Motor	Panel Form	A	B	C	D
59501	1	A	9	18	8 1/8	9 1/2	7 1/2	59522	1	A	9	18	8 1/8	9 1/2
59502	2	A	9	18	8 1/8	9 1/2	7 1/2	59523	2	A	9	18	8 1/8	9 1/2
59503	3	A	9	18	8 1/8	9 1/2	7 1/2	59524	3	A	9	18	8 1/8	9 1/2
59504	5	B	13	16	11 1/2	13 1/2	11 1/2	59525	5	A	9	18	8 1/8	9 1/2
59505	7 1/2	B	13	16	11 1/2	13 1/2	11 1/2	59526	7 1/2	B	13	16	11 1/2	13 1/2
59506	10	B	13	16	11 1/2	13 1/2	11 1/2	59527	10	B	13	16	11 1/2	13 1/2
								59528	15	B	13	16	11 1/2	13 1/2

115 VOLTS					230 VOLTS					550 VOLTS				
Cat. No.	H.P. of Motor	Panel Form	A	B	C	D	E	Cat. No.	H.P. of Motor	Panel Form	A	B	C	D
59543	1	A	9	18	8 1/8	9 1/2	7 1/2	59557	60	28	19	9	11 1/2	11 1/2
59544	2	A	9	18	8 1/8	9 1/2	7 1/2	59558	70	36	19	9	11 1/2	11 1/2
59545	3	A	9	18	8 1/8	9 1/2	7 1/2	59559	75	36	19	9	11 1/2	11 1/2
59546	5	A	9	18	8 1/8	9 1/2	7 1/2	59560	90	36	19	9	11 1/2	11 1/2
59547	7 1/2	B	13	16	11 1/2	13 1/2	11 1/2	59561	100	36	19	9	11 1/2	11 1/2
59548	10	B	13	16	11 1/2	13 1/2	11 1/2	59562	125	36	19	9	11 1/2	11 1/2
59549	15	B	13	16	11 1/2	13 1/2	11 1/2	59563	150	36	19	9	11 1/2	11 1/2

RHEOSTATS

CR 121 SELF-STARTERS

FOR SHUNT, COMPOUND OR SERIES WOUND MOTORS

CR 121 Self-Starters are designed for use with motor-driven pumps where it is desirable to automatically start and stop the motors depending upon a predetermined change in fluid level, fluid pressure, or air pressure. They are also well adapted to start and stop motors by hand control from points remote from the motor.

PILOT SWITCH CONTROL

The accompanying illustration shows the CR 121 Self-Starter operated by a pilot switch for starting 1 and 2 h.p., 115, 230, and 550 volt motors, also 550 volt motors of less than 1 h.p. This starter consists of two contactors and one step of CR 187 resistance. When the control circuit is closed, one of the contactors closes the motor circuit through the resistance; after the motor has attained about 2/3 normal speed, its counter e.m.f. causes the second contactor to close automatically, short circuiting starting resistance and throwing the motor directly on the line.

The self-starter for 3/4 h.p. motors and less, 115 and 230 volts, consists of a single contactor which throws the motor directly on the line.

OPERATION ON OPEN OR CLOSED TANK SYSTEMS, OR BY LINE SWITCH

When CR 121 Self-Starters are used with small motors in connection with open tank or pressure systems, one of the contactors is replaced by a single-pole float switch (CR 223) or Pressure Governor (CR 225.)

For hand starting, a double-pole, single-throw, line switch can replace one of the contactors.

RECOMMENDED WHERE FLOAT SWITCH, LINE SWITCH, OR PRESSURE GOVERNOR IS USED FOR CLOSING MOTOR CIRCUIT

Prices of Self-Starters complete, exclusive of Small Switch for Pilot Switch Control.

Prices of Self-Starters, exclusive of Float Switch, Line Switch and Pressure Governor.

115 VOLTS		230 VOLTS		550 VOLTS		115 VOLTS		230 VOLTS		550 VOLTS	
H.P. of Motor	List Price	H.P. of Motor	List Price	H.P. of Motor	List Price	H.P. of Motor	List Price	H.P. of Motor	List Price	H.P. of Motor	List Price
$\frac{3}{4}$ & Less	\$18.00	$\frac{3}{4}$ & Less	\$18.00	$\frac{3}{4}$ & Less	\$35.00	$\frac{3}{4}$ & Less	**	$\frac{3}{4}$ & Less	**	$\frac{3}{4}$ & Less	\$18.00
1	35.00	1	35.00	1	35.00	1	\$18.00	1	\$18.00	1	18.00
2	35.00	2	35.00	2	35.00	2	18.00	2	18.00	2	18.00

** For $\frac{3}{4}$ h.p. motors, 110 and 220 volts, a Float Switch, CR 223, or Pressure Governor, CR 225, without resistance is recommended.

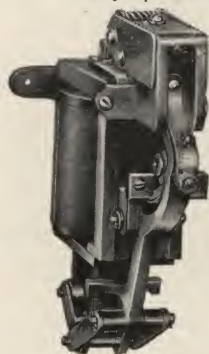


Fig. 1

ALTERNATING AND DIRECT CURRENT CONTACTORS

CR 227, 228

These contactors are not only used extensively in General Electric control apparatus but are furnished for many installations where it is desirable to handle from a distance circuits carrying comparatively large amounts of energy, and where the running of leads large enough to carry the working currents would be expensive. The currents required for closing the contactors are so small that the control wires need be only large enough to furnish the requisite mechanical strength. The contactors can be furnished either mounted or unmounted. The mounting consists of a neat and substantial slate base with cast iron feet attached so that it can be fastened on a wall, or other convenient support.

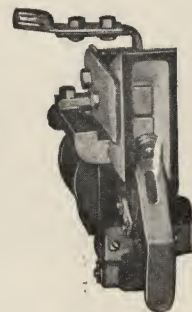


Fig. 2

METHOD OF OPERATION

When a single pole switch (or its equivalent float switch or pressure governor) Figs. 3 and 4 is closed, the solenoid is energized and the contactor is closed. It will be noted from Fig. 3 that the energizing current passes through the resistance "X" down through the contact at the bottom of the device and then through the solenoid coil. The figure represents the contactor at the instant of closing. When it closes, the previous circuit of the energizing current flows through resistance "A". In Fig. 4 the circuit is first completed through the disk shown at the top of the contact. When the contactor closes the disk is raised and the energizing current flows through the resistance. By putting this resistance in the energizing circuit the amount of current consumed and the heating of the contactor coil is reduced to a minimum.

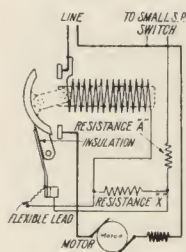


Fig. 3
D.C. Contactor

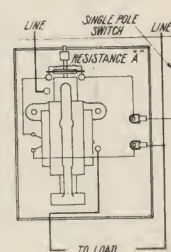


Fig. 4
A.C. Contactor

DUTY

General Electric contactors are designed to carry their rated current continuously and are designed with a large factor of safety. By means of a magnetic blowout with which they are provided, the contactors will safely extinguish the arc if they are made to break a current much greater than their rated ampere capacity.

RENEWAL OF PARTS

In the design of CR 227 and CR 228 contactors, a special effort has been made to construct them so that the parts liable to burn or be destroyed, can be replaced with the greatest of ease and in the least possible time.

RHEOSTATS

ALTERNATING AND DIRECT CURRENT CONTACTORS (Concluded)

DIRECT CURRENT CONTACTORS

*MOUNTED			
Amp.	List Price	Amp.	List Price
100	\$18.00	500	\$38.00
300	28.00	1000	58.00

ALTERNATING CURRENT CONTACTORS

*MOUNTED			
Amp.	List Price	Amp.	List Price
100	\$28.00	500	\$58.00
300	43.00		

* Mounted contactors consist of one contactor with interlock and series resistance for coil mounted on slate base with cast iron feet.

*UNMOUNTED			
Amp.	List Price	Amp.	List Price
100	\$15.00	500	\$35.00
300	25.00	1000	55.00

*UNMOUNTED			
Amp.	List Price	Amp.	List Price
100	\$25.00	500	\$55.00
300	40.00		

* Unmounted contactors are furnished with interlock and resistance and are temporarily mounted on wood base for shipment.

N. B.—It is very important, when ordering, to state the voltage of the circuit on which contactors are to be used. In the case of A.C. contactors the frequency of the circuit must be given.

CR 126 AUTOMATIC STARTING COMPENSATORS

WITH NO-VOLTAGE RELEASE

These compensators are recommended for the remote or automatic operation of the General Electric Company's Form K Induction Motors or Squirrel Cage induction motors of other makes, two- and three-phase 5 h.p. and larger. They are particularly well adapted for use with motors in connection with pumping systems.

GENERAL CONSTRUCTION

Automatic Starting Compensators consist of a time-limit relay with dashpot and 8-A.C. contactors, each provided with a magnetic blowout coil, mounted upon the front of a 1½ in. slate panel. Back of this panel are installed compensator coils and fuses. The whole is supported by pipe framework.

FUSES

Fuses for overload protection are mounted on the back of the panel. As they are not connected in circuit during the period of starting, fuses of proper capacity can be furnished so as to afford protection for the motor when running.

METHODS OF CONTROL

Hand Control From Points Remote From the Motor.

The motor can be controlled either by opening and closing the circuit of the solenoids by means of a small knife switch, or by leaving this circuit closed, and using instead a double- or triple-pole (preferably oil) switch for opening and closing the line circuit.

AUTOMATIC CONTROL

Operation on Open Tank System

When the operation of the motor depends upon the rise or fall of water in a tank, a single pole CR 223 float switch should be connected so as to close the exciting circuit of the controlling solenoids.

Operation on Closed Tank System

When the operation of the motor depends upon the variation of air or water pressure, the General Electric Company's CR 225 pressure governor should be used for opening and closing the exciting circuit of the solenoids.

COMMENDABLE FEATURES

1. The compensator method of starting squirrel cage type induction motors presents a distinct advantage over a resistance-in-the-primary arrangement for reducing the current drawn from the line. In starting a motor with this latter type of starting device, the line current is at all times the same as the motor current, and, therefore, since the starting current will probably be several times greater than the normal load current, serious disturbance may be caused in the line voltage.

When an automatic compensator is used, however, the line current during the period of starting is smaller than the motor current owing to the transformer action of the compensator. In addition, the compensator is provided with taps which can be adjusted to suit the starting conditions.

2. The automatic compensator is operated by an improved type of alternating current solenoid, which insures positive and reliable action, besides making it possible to install the apparatus where **direct current is not available without the use of batteries or other auxiliary appliances**. The main solenoids consume power only during the moments when they are performing their various functions, and are afterwards automatically cut-out, and the power taken by them at any time is small.

3. All main switch parts work in oil, insuring a reliable break and long life for the apparatus. In case of the resistance type of starting device, larger starting currents have to be broken on the switch contacts in air.

4. Automatic compensators protect the motor if the voltage fails.

5. External enclosed fuses are provided which are in circuit only when the motor is across the running side of automatic compensator.

6. When desired, an iron clad type can be furnished so the compensators can be safely installed in places where gas or combustible particles make it inadvisable to install the open type.



110 to 550 Volt
Compensator

RHEOSTATS

CR 126 AUTOMATIC STARTING COMPENSATORS (Concluded)

LIST PRICES

H.P.	25 & 40 CYCLES					60 CYCLES					H.P.	25 & 40 CYCLES					60 CYCLES				
	110 Volts	220 Volts	440 Volts	550 Volts	2080 Volts	110 Volts	220 Volts	440 Volts	550 Volts	2080 Volts		110 Volts	220 Volts	440 Volts	550 Volts	2080 Volts	110 Volts	220 Volts	440 Volts	550 Volts	2080 Volts
5	\$265	\$265	\$265	\$265	\$560	\$255	\$255	\$255	\$255	\$520	50	\$525	\$490	\$340	\$340	\$590	\$480	\$455	\$295	\$295	\$530
7.5	275	275	275	275	560	260	260	260	260	520	60	545	510	350	350	605	485	475	300	300	535
10	285	285	285	285	560	265	265	265	265	520	75		520	360	360	610		485	310	310	540
15	295	295	295	295	560	270	270	270	270	520	85		525	370	370	615		490	315	315	550
20	305	305	305	305	560	275	275	275	275	520	100		545	385	385	630		495	325	325	560
25	490	305	305	305	560	460	275	275	275	520	125		555	560	490	640		505	490	490	615
30	500	310	310	310	560	465	280	280	280	520	150				580	650			570	570	630
35	510	310	310	310	560	470	285	285	285	520	175					590	660		590	590	640
40	520	315	315	315	580	475	290	290	290	525	200					600	665		600	600	650

CR 128 SELF-STARTERS

AUTOMATIC CONTROL FOR SLIP RING INDUCTION MOTORS REQUIRING EXTERNAL RESISTANCE

For the automatic operation of the General Electric Company's Form M, two-phase or three-phase induction motors, or slip ring type motors of other makes, requiring external resistance, CR 128 control equipments are recommended.

These equipments are designed for use with motor-driven pumps, blowers and compressors, where it is desired to automatically start and stop the motor in order to maintain a predetermined fluid level or pressure or where the motor is to be started and stopped by hand control from points remote from the motor.

DUTY

These rheostats are provided with a dashpot by means of which the accelerating period of the motor when starting can be varied from 3 to 30 seconds.

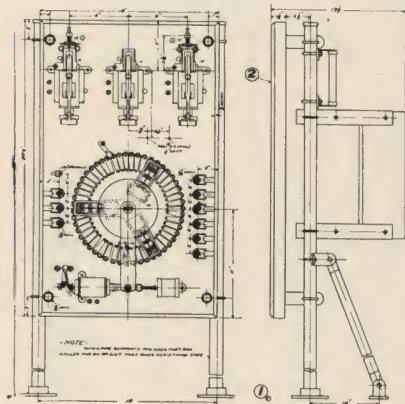
The solenoids and starting resistances are designed to start the motor at normal load at intervals of 4 minutes with a fifteen second starting period. Should the dashpot be adjusted so that the motor will accelerate in less time at normal load, the frequency of starting may be proportionately increased.

A variation in the load when starting affects only the starting resistance, that is, it does not change the current through the solenoids. Hence, when the starting current is greater than full load current the starting period should be decreased, or the intervals between starting increased.

The primary switch consists of 3 A.C. Contactors each provided with magnetic blow-out coil for disrupting the arc.

The secondary circuit is controlled with a 3-arm dial switch which is provided with renewable segments. Although the secondary circuit is never opened and consequently there is little arcing on the dial switch, yet in sizes above 15 h.p., 115 volts; 35 h.p. 230 volts; 75 h.p. 440 volts; and 100 h.p. 550 volts, as an additional precaution against arcing, contactors are used to cut in and out resistance, the dial segments only carrying current sufficient to operate the contactor solenoids.

The dial switch is operated by solenoid and ratchet. The rapidity of the action of the solenoid is controlled by a dashpot which can be adjusted so as to vary the starting period of the motor.



PRICES OF CR 233 FLOAT SWITCH, CR 225 PRESSURE GOVERNOR AND REMOTE CONTROL SWITCH ADDITIONAL

H.P.	VOLTAGE				H.P.	VOLTAGE		
	110	220	440	550		220	440	550
5	\$320.00	\$320.00	\$320.00	\$320.00	40	\$660.00	\$360.00	\$360.00
7½	320.00	320.00	320.00	320.00	50	660.00	360.00	360.00
10	330.00	330.00	330.00	330.00	60	680.00	380.00	380.00
15	330.00	330.00	330.00	330.00	75	680.00	380.00	380.00
20	640.00	340.00	340.00	340.00	100	700.00	700.00	440.00
25	640.00	340.00	340.00	340.00	125		720.00	720.00
30	640.00	340.00	340.00	340.00	150		740.00	740.00
35	640.00	340.00	340.00	340.00	200		800.00	800.00

The standard duty or cycle of operation, for which CR 128 equipments are designed, provides for starting a motor at intervals of 4 minutes with a starting period of 15 seconds.

Heavier duty equipments can be furnished and requests for prices should state starting current, period and voltage.

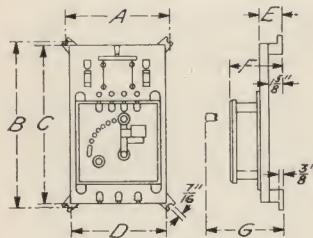
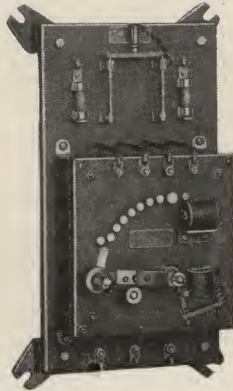
CR 128 equipments are designed particularly for General Electric Slip Ring (Form M) Induction Motors; but if full information is submitted they can be furnished for use with other makes.

RHEOSTATS

CR 133-4 MOTOR-STARTING RHEOSTATS

PANEL FOR USE WITH SHUNT, COMPOUND OR SERIES WOUND MOTORS WHICH WILL COME TO FULL SPEED WITHIN ONE MINUTE AT NORMAL LOAD

This panel is for use with motors which will reach full speed within one minute at normal load and consists of a standard CR 107 motor-starting rheostat with an extended slate top upon which is mounted a line switch and enclosed fuses.



115 VOLTS

Cat. No. *CR 133 Panel	List Price	Cat. No. †CR 134 Panel	List Price	H.P.	DIMENSIONS IN INCHES						
					A	B	C	D	E	F	G
47813	\$19.00	48014	\$20.00	1/2	8 1/2	14 1/2	14	8	2 1/2	5 1/2	7 1/2
47814	19.00	48015	20.00	1/2	8 1/2	14 1/2	14	8	2 1/2	5 1/2	7 1/2
47815	19.00	48016	20.00	1/2	8 1/2	14 1/2	14	8	2 1/2	5 1/2	7 1/2
47816	19.00	48017	20.00	1	8 1/2	14 1/2	14	8	2 1/2	5 1/2	7 1/2
47817	19.00	48018	20.00	2	10 1/2	18 1/2	18	10	2 1/2	6 1/2	8 1/2
47818	19.00	48019	21.00	3	10 1/2	18 1/2	18	10	2 1/2	6 1/2	8 1/2
47819	26.00	48020	28.00	5	10 1/2	22 1/2	22	10	2 1/2	7 1/2	10 1/2
47820	31.00	48021	33.00	7 1/2	10 1/2	22 1/2	22	10	2 1/2	7 1/2	10 1/2
47821	50.00	48022	52.00	10	14 1/2	26 1/2	26	14	2 1/2	9 1/2	13 1/2
47822	58.00	48023	60.00	15	14 1/2	26 1/2	28	14	2 1/2	9 1/2	13 1/2
47823	60.00	48024	65.00	20	16 1/2	32 1/2	32	16	3 1/2	11	15 1/2

230 VOLTS

47824	\$19.00	48025	\$20.00	1/2	8 1/2	14 1/2	14	8	2 1/2	5 1/2	7 1/2
47825	19.00	48026	20.00	1/2	8 1/2	14 1/2	14	8	2 1/2	5 1/2	7 1/2
47826	19.00	48027	20.00	1/2	8 1/2	14 1/2	14	8	2 1/2	5 1/2	7 1/2
47827	19.00	48028	20.00	1	8 1/2	14 1/2	14	8	2 1/2	5 1/2	7 1/2
47828	19.00	48029	20.00	2	10 1/2	18 1/2	18	10	2 1/2	6 1/2	8 1/2
47829	19.00	48030	21.00	3	10 1/2	18 1/2	18	10	2 1/2	6 1/2	8 1/2
47830	26.00	48031	28.00	5	10 1/2	18 1/2	18	10	2 1/2	7 1/2	10 1/2
47831	28.00	48032	30.00	7 1/2	10 1/2	18 1/2	18	10	2 1/2	7 1/2	10 1/2
47832	29.00	48033	31.00	10	10 1/2	22 1/2	22	10	2 1/2	9 1/2	12 1/2
47833	33.00	48034	35.00	15	14 1/2	26 1/2	26	14	2 1/2	9 1/2	13 1/2
47834	57.00	48035	59.00	20	14 1/2	26 1/2	26	14	2 1/2	9 1/2	13 1/2

550 VOLTS

47835	\$19.00	48036	\$20.00	1/2	10 1/2	18 1/2	18	10	2 1/2	5 1/2	7 1/2
47836	19.00	48037	20.00	1/2	10 1/2	18 1/2	18	10	2 1/2	5 1/2	7 1/2
47837	19.00	48038	20.00	1/2	10 1/2	18 1/2	18	10	2 1/2	5 1/2	7 1/2
47838	19.00	48039	20.00	1	10 1/2	18 1/2	18	10	2 1/2	5 1/2	7 1/2
47839	19.00	48040	20.00	2	10 1/2	22 1/2	22	10	2 1/2	6 1/2	8 1/2
47840	19.00	48041	21.00	3	10 1/2	22 1/2	22	10	2 1/2	6 1/2	8 1/2
47841	23.00	48042	25.00	5	10 1/2	22 1/2	22	10	2 1/2	7 1/2	10 1/2
47842	23.00	48043	25.00	7 1/2	10 1/2	22 1/2	22	10	2 1/2	7 1/2	10 1/2
47843	29.00	48044	31.00	10	10 1/2	22 1/2	22	10	2 1/2	9 1/2	12 1/2
47844	33.00	48045	35.00	15	10 1/2	22 1/2	22	10	2 1/2	9 1/2	12 1/2
47845	36.00	48046	38.00	20	14 1/2	26 1/2	26	14	2 1/2	9 1/2	13 1/2

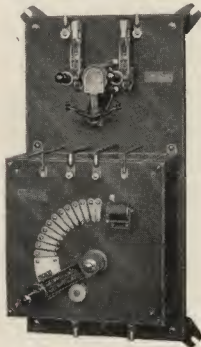
* CR 133 Panels have CR 107 Rheostats.

† CR 134 Panels have CR 111 Rheostats.

CR 135 MOTOR-STARTING RHEOSTATS

PANELS FOR USE WITH SHUNT, COMPOUND OR SERIES WOUND MOTORS

CR 135 Motor-Starting Rheostat Panels are for use with motors which will come to full speed within one minute at normal load, and consist of a standard CR 107 starting rheostat and double-pole circuit breaker mounted on a slatebase.



CR 135 (Type AA) with
DP Circuit Breaker

115 VOLTS

Cat. No.	H.P.	Shipping Weights Lb.	DIMENSIONS IN INCHES							List Price
			A	B	C	D	E	F	G	
48073	1	124	10 1/2	20 1/2	20	10	2 1/2	5 1/2	7 1/2	\$31.00
48074	2	124	10 1/2	24 1/2	24	10	2 1/2	6 1/2	8 1/2	33.00
48075	3	124	10 1/2	24 1/2	24	10	2 1/2	6 1/2	8 1/2	33.00
48076	5	150	10 1/2	24 1/2	24	10	2 1/2	7 1/2	10 1/2	43.00
48077	7 1/2	170	10 1/2	24 1/2	24	10	2 1/2	7 1/2	10 1/2	53.00
48078	10	180	14 1/2	28 1/2	28	14	2 1/2	9 1/2	11 1/2	57.00
48079	15	275	14 1/2	28 1/2	28	14	2 1/2	9 1/2	13 1/2	82.00
48080	20	400	16 1/2	32 1/2	32	16	3 1/2	11 1/2	15 1/2	90.00
48081	25	400	16 1/2	32 1/2	32	16	3 1/2	11 1/2	15 1/2	95.00
48082	30	450	16 1/2	32 1/2	32	16	3 1/2	11 1/2	15 1/2	100.00
48083	35	450	16 1/2	32 1/2	32	16	3 1/2	16 1/2	20 1/2	105.00

RHEOSTATS

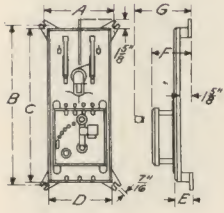
CR 135 MOTOR-STARTING RHEOSTATS

230 VOLTS

Cat. No.	H.P.	Shipping Weights Lb.	DIMENSIONS IN INCHES						List Price
			A	B	C	D	E	F	
48084	1	124	10 $\frac{1}{2}$	20 $\frac{1}{2}$	20	10	2 $\frac{1}{2}$	5 $\frac{5}{8}$	\$33.00
48085	2	124	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	6 $\frac{1}{8}$	33.00
48086	3	124	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	6 $\frac{1}{8}$	33.00
48087	5	170	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	7 $\frac{1}{8}$	40.00
48088	7 $\frac{1}{2}$	170	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	7 $\frac{1}{8}$	45.00
48089	15	175	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	9 $\frac{1}{2}$	48.00
48090	25	250	14 $\frac{1}{2}$	28	28	14	2 $\frac{1}{2}$	9 $\frac{1}{2}$	60.00
48091	30	270	14 $\frac{1}{2}$	28	28	14	2 $\frac{1}{2}$	9 $\frac{1}{2}$	68.00
48092	35	270	14 $\frac{1}{2}$	28	28	14	2 $\frac{1}{2}$	9 $\frac{1}{2}$	73.00
48093	40	425	16 $\frac{1}{2}$	32	32	16	3 $\frac{1}{2}$	10 $\frac{1}{2}$	95.00
48094	50	450	16 $\frac{1}{2}$	32	32	16	3 $\frac{1}{2}$	10 $\frac{1}{2}$	98.00
48095		450	16 $\frac{1}{2}$	32	32	16	3 $\frac{1}{2}$	10 $\frac{1}{2}$	105.00
48096		500	16 $\frac{1}{2}$	32	32	16	3 $\frac{1}{2}$	10 $\frac{1}{2}$	120.00

550 VOLTS

Cat. No.	H.P.	Shipping Weights Lb.	DIMENSIONS IN INCHES						List Price
			A	B	C	D	E	F	
48097	1	124	10 $\frac{1}{2}$	20 $\frac{1}{2}$	20	10	2 $\frac{1}{2}$	5 $\frac{5}{8}$	\$35.00
48098	2	124	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	6 $\frac{1}{8}$	37.00
48099	3	124	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	6 $\frac{1}{8}$	37.00
48100	5	170	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	7 $\frac{1}{8}$	43.00
48101	7 $\frac{1}{2}$	170	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	7 $\frac{1}{8}$	48.00
48102	10	175	10 $\frac{1}{2}$	24	24	10	2 $\frac{1}{2}$	9 $\frac{1}{2}$	52.00
48103	15	250	14 $\frac{1}{2}$	28	28	14	2 $\frac{1}{2}$	9 $\frac{1}{2}$	60.00
48104	20	270	14 $\frac{1}{2}$	28	28	14	2 $\frac{1}{2}$	9 $\frac{1}{2}$	67.00
48105	25	270	14 $\frac{1}{2}$	28	28	14	2 $\frac{1}{2}$	9 $\frac{1}{2}$	72.00
48106	30	385	14 $\frac{1}{2}$	28	28	14	2 $\frac{1}{2}$	9 $\frac{1}{2}$	80.00
48107	35	500	14 $\frac{1}{2}$	28	28	14	2 $\frac{1}{2}$	9 $\frac{1}{2}$	85.00
48108	40	500	16 $\frac{1}{2}$	32	32	16	3 $\frac{1}{2}$	10 $\frac{1}{2}$	95.00
48109	50	500	16 $\frac{1}{2}$	32	32	16	3 $\frac{1}{2}$	10 $\frac{1}{2}$	105.00



CR 137 MOTOR-STARTING RHEOSTAT PANELS FOR LARGE MOTORS



The starting switch on these panels is interlocked with a double-pole, carbon break circuit breaker equipped with low-voltage release. The interlocking device renders impossible the closing of the circuit breaker except when the switch is in the starting position and the armature resistance all cut in.

Panels of capacities above 75 h.p., 115 volts, and 125 h.p., 230 and 550 volts, are equipped with a triple-blade, combination switch for closing the field circuit. The central blade is in series with a low voltage coil on the circuit breaker, and should the operator attempt to open the field when the motor is running the action will trip the circuit breaker. Should the circuit breaker be closed while the field switch is open, it will immediately open,

inasmuch as the no-voltage coil is not excited. The outer blades of the switch through which the field is closed and opened come in contact with the discharge clips which cut in a resistance through which the field is discharged when the field switch is opened.

In the smaller sizes of panels the field switch is omitted and the field circuit is made together with the armature circuit. When the circuit breaker is opened the field discharges through the armature.

The starting resistance used with CR 137 panels is of iron grid type, mounted directly back of the panel, and is designed with sufficient current carrying capacity for 1½ minutes starting service.

These panels can be furnished with sub-base and field rheostat complete for varying the speed of the motor, and can be arranged also for varying the motor speed by armature control. They can be equipped with an ammeter on pivot or swinging bracket, if desired. Inquiries or orders covering these panels for speed control should be accompanied by the following information:

For speed increase the ohmic resistance of the field and the current carrying capacity of the field rheostat should be given.

For speed decrease the load on the motor and the percentage of armature control should be given.

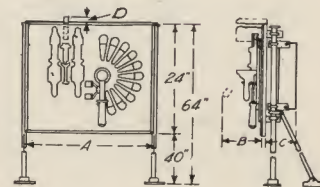


Fig. 1

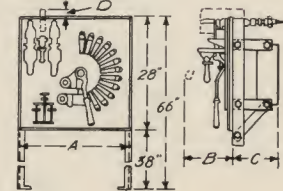


Fig. 2

RHEOSTATS

CR 137 MOTOR-STARTING RHEOSTAT PANELS FOR LARGE MOTORS

DIMENSIONS

COMPLETE STARTING PANELS ONLY

Cat. No.	Fig.	H.P.	Volt	DIMENSIONS IN IN.				List Price	Ap- prox. Ship- ping Wgt.	Cat. No.	Fig.	H.P.	Volt	DIMENSIONS IN IN.				List Price	Ap- prox. Ship- ping Wgt.
				A	B	C	D							A	B	C	D		
45241	1	40	115	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		\$190	425	45254	1	125	230	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		\$280	425
45242	1	50	115	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		230	425	45255	1	125	550	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		290	425
45243	1	60	115	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		245	425	57297	2	160	115	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$	2 $\frac{3}{4}$	430	600
45244	1	60	230	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		210	425	57298	2	160	230	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		390	600
45245	1	60	550	28	9 $\frac{5}{8}$	7 $\frac{1}{8}$	2 $\frac{3}{4}$	225	425	57299	2	160	550	36	11 $\frac{1}{4}$	11 $\frac{1}{4}$	2 $\frac{3}{4}$	320	600
45246	1	75	115	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		270	425	57710	2	200	230	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		400	600
45247	1	75	230	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		220	425	57713	2	200	550	36	11 $\frac{1}{4}$	12 $\frac{1}{2}$	2 $\frac{3}{4}$	330	600
45248	1	75	550	28	9 $\frac{5}{8}$	7 $\frac{1}{8}$	2 $\frac{3}{4}$	240	425	57714	2	250	230	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		460	600
45249	2	85	115	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		360	600	57715	2	250	550	36	11 $\frac{1}{4}$	12 $\frac{1}{2}$	2 $\frac{3}{4}$	370	600
45250	1	85	230	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		275	425	57716	2	300	230	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		470	600
45251	2	85	550	28	9 $\frac{5}{8}$	7 $\frac{1}{8}$	2 $\frac{3}{4}$	270	425	57717	2	300	550	36	11 $\frac{1}{4}$	12 $\frac{1}{2}$	2 $\frac{3}{4}$	380	600
57291	1	100	115	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		360	600	57749	2	350	230	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		480	600
45252	1	100	230	28	11 $\frac{1}{4}$	9 $\frac{5}{16}$		275	425	57798	2	350	550	36	13 $\frac{1}{4}$	12 $\frac{1}{2}$	5 $\frac{3}{4}$	470	600
45253	1	100	550	28	9 $\frac{5}{8}$	7 $\frac{1}{8}$	2 $\frac{3}{4}$	280	425	57799	2	400	230	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		690	600
57294	2	125	115	32	12 $\frac{1}{2}$	12 $\frac{1}{2}$		420	600	57929	2	400	550	36	13 $\frac{1}{4}$	12 $\frac{1}{2}$	5 $\frac{3}{4}$	480	600

STARTING AND SPEED-CONTROLLING PANELS

115 VOLTS				230 VOLTS				550 VOLTS			
Horse-Power	LIST PRICE		Approx. Shipping Weight in Lb.	Horse-Power	LIST PRICE		Approx. Shipping Weight in Lb.	Horse-Power	LIST PRICE		Approx. Shipping Weight in Lb.
	50% Max. Speed Increase	100% Max. Speed Increase			50% Max. Speed Increase	100% Max. Speed Increase			50% Max. Speed Increase	100% Max. Speed Increase	
40	\$235	\$260	500	60	\$255	\$280	500	60	\$270	\$295	500
50	275	300	500	75	265	290	500	75	285	310	500
60	290	315	500	85	315	350	500	85	315	345	500
75	315	345	500	100	315	355	500	100	325	360	500
85	405	440	720	125	325	370	500	125	335	380	500
100	405	440	720	160	435		720	160	365		720
125	465	515	720	200	455		720	200	385		720
160	475		720	250	515		720	250	425		720
				300	525		720	300	435		720
				350	535		720	350	525		720
				400	745		720	400	535		720

The overall dimensions of these panels are the same for corresponding horse-power as those given above. They are, however, furnished with a sub-base which for all sizes extends 16 in. below the main slate of the panel. The distance which the field rheostat extends back of the sub-base will not exceed 12 $\frac{1}{4}$ in.

STARTING AND SPEED-CONTROLLING PANELS EQUIPPED WITH AMMETER.

115 VOLTS				230 VOLTS				550 VOLTS			
Horse-Power	Starting Duty Only	50% Max. Speed Increase	100% Max. Speed Increase	Horse-Power	Starting Duty Only	50% Max. Speed Increase	100% Max. Speed Increase	Horse-Power	Starting Duty Only	50% Max. Speed Increase	100% Max. Speed Increase
40	\$280	\$325	\$350	60	\$300	\$345	\$370	60	\$310	\$355	\$380
50	325	370	395	75	310	355	380	75	325	370	395
60	340	385	410	85	365	405	440	85	355	400	430
75	365	410	440	100	370	410	450	100	370	415	450
85	455	500	535	125	375	420	465	125	380	425	470
100	460	505	540	160	485	530		160	410	455	
125	535	580	630	200	500	555		200	425	480	
160	545	590		250	575	630		250	465	520	
				300	585	640		300	475	530	
				350	610	665		350	565	620	
				400	820	875		400	580	635	

When the ammeter is mounted on any panel listed on this sheet, as shown by the illustration above, it will extend approximately 12 in. above the panel.

Overall dimensions of speed-controlling panels are the same for corresponding horse-powers as those given above, excepting that they are furnished with a panel which for all sizes extends 16 in. below the main slate of the panel. The distance which the field rheostat extends back to the sub-base will not exceed 12 $\frac{1}{4}$ in.

RHEOSTATS

CR 139 MOTOR-STARTING RHEOSTAT PANELS

WITH NO-VOLTAGE RELEASE, DOUBLE-POLE CIRCUIT BREAKER AND FUSES

CR 139 (Type UY) Motor-Starting Panels are designed specially for government purposes and are provided with no-voltage release, double-pole circuit breaker and fuses to conform to specifications for direct current electric motors for operating navy yard machinery, 2-M-1. June, 1, 1908.



The usefulness of these panels, however, is not limited to government installations. The panels are provided with a specially heavy duty motor-starting resistance and switch, and are very desirable for commercial purposes where the duty is unusually severe. The parts are readily renewable and easily accessible for making repairs and replacements. The magnet coils and the contact parts carrying the main current can be removed from the face of the panel without affecting the parts mounted on the rear. The insulating material used is non-inflammable, and non-absorbent. Each panel is a complete unit and provides for ready installation as terminals are furnished for line connections at its upper end and for motor connections at its lower end.

MOTOR-STARTING SWITCH

The starting arm is provided with a self-aligning, renewable, sliding contact so arranged that the contact is independent of stresses applied to the arm. On 115 volt panels $7\frac{1}{2}$ h.p. and larger and 230 volt panels 10 h.p. and larger the starting switch is short circuited in the running position. A magnetic blowout is provided, on 115 volt panels of 15 h.p. capacity and larger, and 230 volt panels of 35 h.p. capacity and larger, to protect the initial stationary contact of the switches.

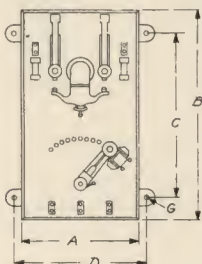
NO-VOLTAGE AND OVERLOAD RELEASE

The panels are equipped with a no-voltage release. The double-pole circuit breaker is so arranged that either will operate independently of the other, or in other words if one arm is closed on short circuit the other will open, thus protecting the motor.

RESISTANCE

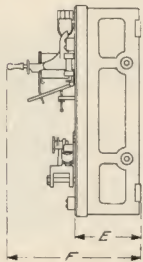
The resistance is completely enclosed so as to be protected against moisture, dust, metal chips, filings, etc. The connections are such that the armature resistance is not in series with the field in the running position, and the motor field discharges through the armature and starting resistance when the starting arm passes to the off position.

115 VOLTS



Cat. No.	H. P. of Motor	DIMENSIONS IN INCHES							List Price	Approx. Shipping Weight in Lb
		A	*B	C	D	E	F	G		
42473	$\frac{1}{2}$	10	18	14	11 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	\$42.00	81
42474	1	10	18	14	11 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	42.00	87
42475	1	10	18	14	11 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	42.00	97
42476	2	10	18	14	11 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	44.00	100
42477	3	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	52.00	105
42478	5	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	58.00	110
42479	$7\frac{1}{2}$	14	26	20	15 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	16 $\frac{1}{2}$	105.00	125
42480	10	14	26	20	15 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	16 $\frac{1}{2}$	105.00	185
42481	15	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{2}$	155.00	250
42482	20	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{2}$	160.00	255
42483	25	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{2}$	165.00	260
42484	35	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{2}$	195.00	275

230 VOLTS



42485	$\frac{1}{2}$	10	18	14	11 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	\$44.00	81
42486	1	10	18	14	11 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	44.00	87
42487	1	10	18	14	11 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	44.00	97
42488	2	10	18	14	11 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	44.00	100
42489	3	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	52.00	110
42490	5	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	60.00	125
42491	$7\frac{1}{2}$	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	13 $\frac{1}{2}$	85.00	185
42492	10	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	16 $\frac{1}{2}$	105.00	250
42493	15	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	16 $\frac{1}{2}$	105.00	260
42494	20	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	16 $\frac{1}{2}$	110.00	275
42495	25	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{2}$	110.00	280
42496	35	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{2}$	185.00	285
42497	50	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{2}$	195.00	290
42498	65	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	18 $\frac{1}{2}$	195.00	300

* For non-reversing panels only. B dimensions of reversing panels will be furnished on application.

RHEOSTATS

CR 140 SPEED-CONTROLLING RHEOSTAT PANELS

WITH NO-VOLTAGE RELEASE, DOUBLE-POLE CIRCUIT BREAKER, AND FUSES

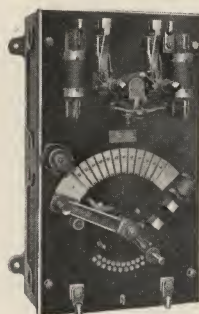
These panels are designed to meet the same requirements as those described in CR 139. In addition to all the features possessed by the CR 139 panels, CR 140 panels are provided with a controlling switch for varying the speed of the motor by means of cutting resistance into the shunt field.

CONTROLLING SWITCH

The arm which varies the field resistance is so interlocked with the starting arm that the latter cannot be moved to start the motor unless the former is on the full field point. The stationary and sliding contacts of the controlling switch are renewable. Twenty divisions of resistance are provided which make the panels suitable for a speed control as high as 4:1.

RESISTANCE

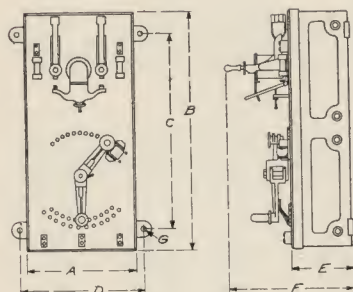
The resistance is enclosed on the top, bottom and the rear but is ventilated by perforated screens on the sides of the panel frame.



110 VOLTS

H.P. of Motor	DIMENSIONS IN INCHES							List Price	Approx. Shipping Wt. in Lb.
	A	*B	C	D	E	F	G		
$\frac{1}{4}$	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	\$62.00	97
$\frac{1}{2}$	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	62.00	105
1	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	62.00	125
2	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	64.00	135
3	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	72.00	150
5	12	22	17	13 $\frac{1}{2}$	7 $\frac{1}{2}$	13 $\frac{1}{2}$	$\frac{1}{2}$	80.00	155
7 $\frac{1}{2}$	14	26	20	15 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	$\frac{1}{2}$	135.00	220
10	14	26	20	15 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	$\frac{1}{2}$	135.00	275
15	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	$\frac{1}{2}$	185.00	310
20	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	$\frac{1}{2}$	190.00	325
25	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	$\frac{1}{2}$	195.00	350
35	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	$\frac{1}{2}$	225.00	375

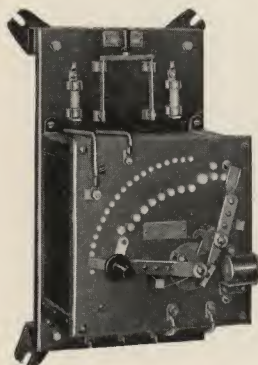
220 VOLTS



H.P. of Motor	DIMENSIONS IN INCHES							List Price	Approx. Shipping Wt. in Lb.
	A	*B	C	D	E	F	G		
$\frac{1}{4}$	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	\$64.00	97
$\frac{1}{2}$	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	64.00	105
1	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	64.00	125
2	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	66.00	135
3	12	22	17	13 $\frac{1}{2}$	5 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$	74.00	155
5	12	22	17	13 $\frac{1}{2}$	7 $\frac{1}{2}$	13 $\frac{1}{2}$	$\frac{1}{2}$	82.00	185
7 $\frac{1}{2}$	12	22	17	13 $\frac{1}{2}$	7 $\frac{1}{2}$	13 $\frac{1}{2}$	$\frac{1}{2}$	115.00	220
10	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	$\frac{1}{2}$	140.00	250
15	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	$\frac{1}{2}$	140.00	310
20	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	$\frac{1}{2}$	140.00	325
25	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	14 $\frac{1}{2}$	$\frac{1}{2}$	145.00	350
35	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	$\frac{1}{2}$	145.00	360
50	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	$\frac{1}{2}$	220.00	375
65	18	32	25	19 $\frac{1}{2}$	8 $\frac{1}{2}$	16 $\frac{1}{2}$	$\frac{1}{2}$	230.00	390
								230.00	400

* For non-reversing panels only. B dimensions of reversing panels will be furnished on application.

If it is desirable to use CR 140 panels with reversible motors, a double-pole double-throw switch can be mounted on the panel between the starting switch and the circuit breaker. To obtain price of the panel so equipped, add \$8.75 net to the price of the panel listed above.



CR 144 AND 145 REVERSIBLE SPEED-CONTROLLING PANELS

CR 144 rheostat panels consist of CR 162 speed-controlling rheostats mounted on slate bases with double-pole switch and fuses. Their general appearance is shown in the accompanying illustration:

When overload release protection is desired these rheostat panels can be furnished with a CR 163 speed-controlling rheostat mounted on a slate base complete with double-pole switch and fuses.

CR 145 Reversible Speed-Controlling Panels are the same as CR 144 panels except that they are provided with triple-pole reversing switches in place of the double-pole switch shown in the illustration. They are furnished with or without overload release as desired.

RHEOSTATS

CR 144 SPEED-CONTROLLING PANELS

2 TO 1 SPEED VARIATION

3 TO 1 SPEED VARIATION

H.P.	115 Volts		230 Volts		550 Volts		H.P.	115 Volts		230 Volts		550 Volts	
	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases		S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases
$\frac{1}{8}$ to $\frac{3}{4}$	\$32.00	\$36.00	\$32.00	\$36.00	\$33.00	\$37.00	$\frac{1}{8}$ to $\frac{3}{4}$	\$35.00	\$39.00	\$35.00	\$39.00	\$36.00	\$40.00
1	32.00	36.00	32.00	36.00	33.00	37.00	1	35.00	39.00	35.00	39.00	36.00	40.00
2	32.00	36.00	32.00	36.00	33.00	37.00	2	35.00	39.00	35.00	39.00	36.00	40.00
3	33.00	37.00	33.00	37.00	33.00	37.00	3	36.00	40.00	36.00	40.00	41.00	45.00
4	37.00	41.00	34.00	38.00	35.00	42.00	4	42.00	46.00	37.00	41.00	41.00	45.00
5	37.00	41.00	34.00	38.00	35.00	42.00	5	43.00	47.00	37.00	41.00	41.00	45.00
7 $\frac{1}{2}$	40.00	44.00	40.00	44.00	44.00	48.00	7 $\frac{1}{2}$	46.00	50.00	46.00	50.00	50.00	54.00
10	55.00	60.00	48.00	53.00	52.00	57.00	10	60.00	65.00	51.00	56.00	55.00	60.00
15	70.00	75.00	65.00	70.00	63.00	68.00	15	75.00	80.00	67.00	72.00	67.00	72.00
20	94.00	101.00	72.00	79.00	70.00	77.00	20	96.00	103.00	76.00	83.00	76.00	83.00
25	115.00	122.00	78.00	85.00	70.00	77.00	25	121.00	128.00	84.00	91.00	84.00	91.00
30	115.00	122.00	80.00	87.00	80.00	87.00	30	121.00	128.00	85.00	92.00	85.00	92.00
35	130.00	137.00	105.00	112.00	100.00	107.00	35	140.00	147.00	114.00	121.00	110.00	117.00
40			120.00	130.00	115.00	125.00	40			130.00	140.00	125.00	135.00
50			140.00	150.00	125.00	135.00	50			155.00	165.00	140.00	150.00

CR 145 REVERSING SPEED-CONTROLLING PANELS

2 TO 1 SPEED VARIATION

3 TO 1 SPEED VARIATION

H.P.	115 Volts		230 Volts		550 Volts		H.P.	115 Volts		230 Volts		550 Volts	
	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases		S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases	S.F.A. With no-voltage release	S.F.O. With no-voltage and overload releases
$\frac{1}{8}$ to $\frac{3}{4}$	\$35.00	\$39.00	\$35.00	\$39.00	\$40.00	\$44.00	$\frac{1}{8}$ to $\frac{3}{4}$	\$38.00	\$42.00	\$38.00	\$42.00	\$43.00	\$47.00
1	35.00	39.00	35.00	39.00	40.00	44.00	1	38.00	42.00	38.00	42.00	43.00	47.00
2	35.00	39.00	35.00	39.00	40.00	44.00	2	38.00	42.00	38.00	42.00	43.00	47.00
3	36.00	40.00	36.00	40.00	45.00	49.00	3	39.00	43.00	39.00	43.00	48.00	52.00
4	40.00	44.00	37.00	41.00	45.00	49.00	4	45.00	49.00	40.00	44.00	48.00	52.00
5	40.00	44.00	37.00	41.00	45.00	49.00	5	46.00	50.00	40.00	44.00	48.00	52.00
7 $\frac{1}{2}$	43.00	47.00	43.00	47.00	51.00	55.00	7 $\frac{1}{2}$	49.00	53.00	49.00	53.00	57.00	61.00
10	60.00	65.00	53.00	56.00	59.00	64.00	10	65.00	70.00	54.00	59.00	62.00	67.00
15	78.00	83.00	70.00	75.00	60.00	65.00	15	83.00	88.00	72.00	77.00	64.00	69.00
20	102.00	109.00	77.00	84.00	70.00	77.00	20	104.00	111.00	81.00	88.00	72.00	79.00
25	123.00	130.00	83.00	90.00	77.00	84.00	25	129.00	136.00	89.00	96.00	83.00	90.00
30	123.00	130.00	85.00	92.00	87.00	94.00	30	129.00	136.00	90.00	97.00	96.00	103.00
35	138.00	145.00	113.00	120.00	107.00	114.00	35	148.00	155.00	122.00	129.00	117.00	124.00
40			128.00	138.00	122.00	132.00	40			138.00	148.00	132.00	142.00
50			148.00	158.00	132.00	142.00	50			163.00	173.00	147.00	157.00

CR 151-2-3-4 SPEED-CONTROLLING RHEOSTATS

WITH NO-VOLTAGE RELEASE FOR USE WITH SHUNT, COMPOUND
OR SERIES WOUND MOTOR

These rheostats are designed for regulating the speed of motors by armature control with a maximum decrease in speed of 50 per cent.

CR 151 Speed-Controlling Rheostats are for use with motors when the energy required varies directly with the load, that is, motors driving machine tools, reciprocating pumps, etc., and requiring the same amount of current at half speed as at normal speed. They are provided with renewable segments.

CR 152 Rheostats are like the CR 151 with the exception of the segments which are not renewable.

CR 153 Speed-Controlling Rheostats are to be used with motors when the energy required does not vary directly with the load, that is, motors driving ventilating fans, centrifugal pumps, etc., and requiring much less current at one-half speed than at full normal speed. They are provided with renewable segments.

CR 154 Rheostats are the same as CR 153 Rheostats but are not provided with renewable segments.

The General Electric Company's Form P tube resistance units are used in sizes up to and including 3 h.p. 115 volts, 5 h.p. 230 volts and 7 $\frac{1}{2}$ h.p. 550 volts CR 151-2; and 3 h.p. 115 volts, 10 h.p. 230 volts and 15 h.p. 550 volts CR 153-4. In larger sizes cast iron grids are used.



RHEOSTATS

SPEED-CONTROLLING RHEOSTATS

FOR MACHINE SERVICE

CR 151 RHEOSTATS

Provided with Renewable Segments and No-voltage Release.
Prices cover the Rheostats complete.

CR 152 RHEOSTATS

Provided with No-voltage Release.
Not provided with Renewable Segments.

115 VOLTS			230 VOLTS		550 VOLTS		115 VOLTS			230 VOLTS		550 VOLTS	
H.P.	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	H.P.	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
$\frac{1}{4}$	59209	\$12.50	59216	\$12.50	59225	\$13.50	$\frac{1}{4}$	58314	\$10.00	58326	\$10.00	58338	\$10.00
$\frac{1}{2}$	59210	13.50	59217	13.50	59226	14.50	$\frac{1}{2}$	58315	10.00	58327	10.00	58339	11.00
1	59211	18.50	59218	18.50	59227	18.50	1	58316	11.00	58328	11.00	58340	12.00
2	59212	21.00	59219	21.00	59228	21.00	2	58317	15.50	58329	15.50	58341	15.50
3	59213	29.00	59220	29.00	59229	29.00	3	58318	18.00	58330	18.00	58342	18.00
5	59214	34.00	59221	34.00	59230	34.00	5	58319	25.00	58331	25.00	58343	25.00
7 $\frac{1}{2}$	59215	44.00	59222	44.00	59231	54.00	7 $\frac{1}{2}$	58320	30.00	58332	30.00	58344	30.00
10	58322	50.00	59223	66.00	59232	66.00	10	58321	40.00	58333	50.00	58345	50.00
15	58323	65.00	59224	70.00	59233	90.00	15			58334	62.00	58346	62.00
20	58324	90.00	58336	70.00	59234	107.00				58335	65.00	58347	85.00
	58325	105.00	58337	100.00	58349	120.00						58348	102.00

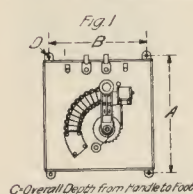
FOR FAN MOTOR SERVICE**CR 153 RHEOSTATS**

Provided with Renewable Segments and No-voltage Release.

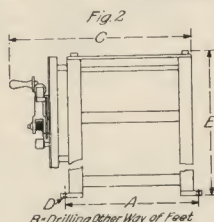
CR 154 RHEOSTATS

Provided with No-voltage Release.
Not provided with Renewable Segments.

115 VOLTS			230 VOLTS		550 VOLTS		115 VOLTS			230 VOLTS		550 VOLTS	
H.P.	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	H.P.	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
$\frac{1}{4}$	59827	\$12.50	59834	\$12.50	59843	\$13.50	$\frac{1}{4}$	59607	\$10.00	59619	\$10.00	59631	\$10.00
$\frac{1}{2}$	59828	13.50	59835	13.50	59844	14.50	$\frac{1}{2}$	59608	10.00	59620	10.00	59632	11.00
1	59829	15.50	59836	15.50	59845	15.50	1	59609	11.00	59621	11.00	59633	12.00
2	59830	16.00	59837	16.00	59846	16.00	2	59610	12.50	59622	12.50	59634	12.50
3	59831	24.00	59838	24.00	59847	24.00	3	59611	13.00	59623	13.00	59635	13.00
5	59832	29.00	59839	29.00	59848	29.00	5	59612	20.00	59624	20.00	59636	20.00
7 $\frac{1}{2}$	59833	42.00	59840	42.00	59849	54.00	7 $\frac{1}{2}$	59613	25.00	59625	25.00	59637	25.00
10	59615	50.00	59841	54.00	59850	64.00	10	59614	38.00	59626	38.00	59638	50.00
15	59616	65.00	59842	70.00	59851	80.00	15			59627	50.00	59639	60.00
20	59617	90.00	59629	70.00	59852	97.00				59628	65.00	59640	75.00
	59618	105.00	59630	90.00	59642	110.00						59641	92.00



C-Overall Depth from front to back



B-Drilling Other Way of Feet

DIMENSIONS OF CR 151-2-3-4 SPEED-CONTROLLING RHEOSTATS

WITH NO-VOLTAGE RELEASE FOR USE WITH SHUNT, COMPOUND OR SERIES WOUND MOTOR

115 VOLTS										115 VOLTS									
CR 152 Cat. No.	CR 151 Cat. No.	H.P. of Motor	Fig. No.	DIMENSIONS IN INCHES					CR 154 Cat. No.	CR 153 Cat. No.	Motor H.P.	Fig. No.	DIMENSIONS IN INCHES					CR 154 Cat. No.	CR 153 Cat. No.
				Drilling		Depth	Size of Hole	Height					Drilling		Depth	Size of Hole	Height		
				A	B	C	D	E					A	B	C	D	E		
58314		$\frac{1}{4}$	1	6 $\frac{1}{2}$	6 $\frac{1}{2}$	5 $\frac{1}{2}$	$\frac{1}{2}$		59607		$\frac{1}{4}$	1	6 $\frac{1}{2}$	6 $\frac{1}{2}$	5 $\frac{1}{2}$	$\frac{1}{2}$		59607	
58315	59209	$\frac{1}{2}$	1	9 $\frac{1}{2}$	7 $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{1}{2}$		59608	59827	$\frac{1}{2}$	1	9 $\frac{1}{2}$	7 $\frac{1}{2}$	8	$\frac{1}{2}$		59608	59827
58316	59210	1	1	9 $\frac{1}{2}$	7 $\frac{1}{2}$	7	$\frac{1}{2}$		59609	59828	1	1	9 $\frac{1}{2}$	7 $\frac{1}{2}$	9 $\frac{1}{2}$	$\frac{1}{2}$		59609	59828
58317	59211	2	1	9 $\frac{1}{2}$	7 $\frac{1}{2}$	9 $\frac{1}{2}$	$\frac{1}{2}$		59610	59829	2	1	9 $\frac{1}{2}$	7 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$		59610	59829
58318	59212	3	1	9 $\frac{1}{2}$	7 $\frac{1}{2}$	9 $\frac{1}{2}$	$\frac{1}{2}$		59611	59830	3	1	9 $\frac{1}{2}$	7 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$		59611	59830
58319	59213	5	1	13 $\frac{1}{2}$	11 $\frac{1}{2}$	10	$\frac{1}{2}$		59612	59831	5	1	13 $\frac{1}{2}$	11 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{1}{2}$		59612	59831
58320	59214	7 $\frac{1}{2}$	1	13 $\frac{1}{2}$	10 $\frac{1}{2}$	13 $\frac{1}{2}$	$\frac{1}{2}$		59613	59832	7 $\frac{1}{2}$	1	12 $\frac{1}{2}$	10 $\frac{1}{2}$	15	$\frac{1}{2}$		59613	59832
58321	59215	10	1	18 $\frac{1}{2}$	17 $\frac{1}{2}$	16	$\frac{1}{2}$		59614	59833	10	1	17 $\frac{1}{2}$	18 $\frac{1}{2}$	17 $\frac{1}{2}$	$\frac{1}{2}$		59614	59833
	58322	15	2 $\frac{1}{2}$	18 $\frac{1}{2}$	20 $\frac{1}{2}$	21 $\frac{1}{2}$	$\frac{1}{2}$			59615	15	2 $\frac{1}{2}$	17 $\frac{1}{2}$	18 $\frac{1}{2}$	23	$\frac{1}{2}$			59615
	58323	20	2 $\frac{1}{2}$	18 $\frac{1}{2}$	20 $\frac{1}{2}$	21 $\frac{1}{2}$	$\frac{1}{2}$			59616	20	2 $\frac{1}{2}$	17 $\frac{1}{2}$	18 $\frac{1}{2}$	23	$\frac{1}{2}$			59616
	58324			20 $\frac{1}{2}$	18 $\frac{1}{2}$	26 $\frac{1}{2}$	$\frac{1}{2}$	33 $\frac{1}{2}$		59617			20 $\frac{1}{2}$	18 $\frac{1}{2}$	26 $\frac{1}{2}$	$\frac{1}{2}$	33 $\frac{1}{2}$		59617
	58325			20 $\frac{1}{2}$	18 $\frac{1}{2}$	27	$\frac{1}{2}$	33 $\frac{1}{2}$		59618			20 $\frac{1}{2}$	18 $\frac{1}{2}$	26 $\frac{1}{2}$	$\frac{1}{2}$	33 $\frac{1}{2}$		59618

RHEOSTATS

DIMENSIONS OF CR 151-2-3-4 SPEED-CONTROLLING RHEOSTATS

WITH NO-VOLTAGE RELEASE FOR USE WITH SHUNT, COMPOUND OR SERIES WOUND MOTORS

230 VOLTS

230 VOLTS

CR 152 Cat. No.	CR 151 Cat. No.	H.P. of Motor	Fig. No.	DIMENSIONS IN INCHES					CR 154 Cat. No.	CR 153 Cat. No.	H.P. of Motor	Fig. No.	DIMENSIONS IN INCHES						
				Drilling		Depth	Size of Hole						Height	Drilling		Depth	Size of Hole		Height
				A	B		C	D						E	A		B	C		D	E
58326		$\frac{1}{2}$	1	$6\frac{3}{8}$	$6\frac{3}{8}$	$5\frac{1}{2}$	$1\frac{1}{8}$		59619		$\frac{1}{2}$	1	$6\frac{3}{8}$	$6\frac{3}{8}$	$5\frac{3}{8}$	$1\frac{1}{8}$			
58327	59216	$\frac{1}{2}$	1	$9\frac{1}{8}$	$7\frac{1}{8}$	$7\frac{1}{8}$	$3\frac{1}{2}$		59620	59834	$\frac{1}{2}$	1	$9\frac{1}{8}$	$7\frac{1}{8}$	8	$3\frac{1}{2}$			
58328	59217	$\frac{1}{2}$	1	$9\frac{1}{8}$	$7\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{1}{2}$		59621	59835	$\frac{1}{2}$	1	$9\frac{1}{8}$	$7\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{1}{2}$			
58329	59218	$\frac{1}{2}$	1	$9\frac{1}{8}$	$7\frac{1}{8}$	$11\frac{1}{8}$	$3\frac{1}{2}$		59622	59836	$\frac{1}{2}$	1	$9\frac{1}{8}$	$7\frac{1}{8}$	$11\frac{1}{8}$	$3\frac{1}{2}$			
58330	59219	$\frac{1}{2}$	1	$9\frac{1}{8}$	$7\frac{1}{8}$	$11\frac{1}{8}$	$3\frac{1}{2}$		59623	59837	$\frac{1}{2}$	1	$9\frac{1}{8}$	$7\frac{1}{8}$	$11\frac{1}{8}$	$3\frac{1}{2}$			
58331	59220	1	1	$13\frac{1}{8}$	$11\frac{1}{8}$	$11\frac{1}{8}$	$3\frac{1}{2}$		59624	59838	1	1	$13\frac{1}{8}$	$11\frac{1}{8}$	$11\frac{1}{8}$	$3\frac{1}{2}$			
58332	59221	1	1	$13\frac{1}{8}$	$10\frac{1}{8}$	$14\frac{1}{8}$	$3\frac{1}{2}$		59625	59839	1	1	$12\frac{1}{8}$	$10\frac{1}{8}$	15	$3\frac{1}{2}$			
58333	59222	3	1	$13\frac{1}{8}$	$10\frac{1}{8}$	$18\frac{1}{8}$	$3\frac{1}{2}$		59626	59840	3	1	$12\frac{1}{8}$	$10\frac{1}{8}$	$18\frac{1}{8}$	$3\frac{1}{2}$			
58334	59223	$7\frac{1}{2}$	2†	$17\frac{1}{8}$	$18\frac{1}{8}$	$22\frac{1}{8}$	$3\frac{1}{2}$	$25\frac{3}{8}$	59627	59841	$7\frac{1}{2}$	2†	$11\frac{1}{8}$	$23\frac{1}{8}$	16	$3\frac{1}{2}$	$26\frac{1}{8}$		
58335	59224	10	2†	$17\frac{1}{8}$	$18\frac{1}{8}$	$22\frac{1}{8}$	$3\frac{1}{2}$	$25\frac{3}{8}$	59628	59842	10	2†	$11\frac{1}{8}$	$23\frac{1}{8}$	16	$3\frac{1}{2}$	$26\frac{1}{8}$		
	58336	15	2†	$20\frac{1}{8}$	$18\frac{1}{8}$	26	$3\frac{1}{2}$	33		59629	15	2†	$16\frac{1}{8}$ *	$17\frac{1}{8}$ *	23	$3\frac{1}{2}$	$34\frac{1}{8}$		
	58337	20	2†	$20\frac{1}{8}$	$18\frac{1}{8}$	26	$3\frac{1}{2}$	33		59630	20	2†	$16\frac{1}{8}$ *	$17\frac{1}{8}$ *	23	$3\frac{1}{2}$	$40\frac{1}{8}$		

550 VOLTS

550 VOLTS

58338			1	6 $\frac{3}{8}$	6 $\frac{3}{8}$	5 $\frac{1}{2}$	1 $\frac{1}{8}$		59631			1	6 $\frac{3}{8}$	6 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{1}{8}$	
58339	59225		1	9 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	3 $\frac{1}{2}$		59632	59843		1	9 $\frac{1}{8}$	7 $\frac{1}{8}$	8	3 $\frac{1}{2}$	
58340	59226		1	9 $\frac{1}{8}$	7 $\frac{1}{8}$	9 $\frac{1}{8}$	3 $\frac{1}{2}$		59633	59844		1	9 $\frac{1}{8}$	7 $\frac{1}{8}$	9 $\frac{1}{8}$	3 $\frac{1}{2}$	
58341	59227		1	9 $\frac{1}{8}$	7 $\frac{1}{8}$	11 $\frac{1}{8}$	3 $\frac{1}{2}$		59634	59845		1	9 $\frac{1}{8}$	7 $\frac{1}{8}$	11 $\frac{1}{8}$	3 $\frac{1}{2}$	
58342	59228	1	1	9 $\frac{1}{8}$	7 $\frac{1}{8}$	11 $\frac{1}{8}$	3 $\frac{1}{2}$		59635	59846	1	1	9 $\frac{1}{8}$	7 $\frac{1}{8}$	11 $\frac{1}{8}$	3 $\frac{1}{2}$	
58343	59229	2	1	13 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	3 $\frac{1}{2}$		59636	59847	2	1	13 $\frac{1}{8}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	3 $\frac{1}{2}$	
58344	59230	3	1	13 $\frac{1}{8}$	10 $\frac{1}{8}$	14 $\frac{1}{8}$	3 $\frac{1}{2}$		59637	59848	3	1	12 $\frac{1}{8}$	10 $\frac{1}{8}$	15	3 $\frac{1}{2}$	
58345	59231	5	1	13 $\frac{1}{8}$	11 $\frac{1}{8}$	18 $\frac{1}{8}$	3 $\frac{1}{2}$		59638	59849	5	1	12 $\frac{1}{8}$	10 $\frac{1}{8}$	18 $\frac{1}{8}$	3 $\frac{1}{2}$	
58346	59232	7 $\frac{1}{2}$	1	14 $\frac{1}{8}$	12 $\frac{1}{8}$	15 $\frac{1}{8}$	3 $\frac{1}{2}$		59639	59850	7 $\frac{1}{2}$	2†	11 $\frac{1}{8}$	23 $\frac{1}{8}$	16	3 $\frac{1}{2}$	26 $\frac{1}{8}$
58347	59233	10	2†	17 $\frac{1}{8}$	18 $\frac{1}{8}$	22 $\frac{1}{8}$	3 $\frac{1}{2}$	25 $\frac{3}{8}$	59640	59851	10	2†	11 $\frac{1}{8}$	23 $\frac{1}{8}$	16	3 $\frac{1}{2}$	26 $\frac{1}{8}$
58348	59234	15	2†	20 $\frac{1}{8}$	18 $\frac{1}{8}$	25 $\frac{1}{8}$	3 $\frac{1}{2}$	40 $\frac{1}{8}$	59641	59852	15	2†	15 $\frac{1}{8}$	23 $\frac{1}{8}$	20	3 $\frac{1}{2}$	26 $\frac{1}{8}$
	58349	20	2†	*	18 $\frac{1}{8}$	23	3 $\frac{1}{2}$	40 $\frac{1}{8}$	59642		20	2†	16 $\frac{1}{8}$ *	17 $\frac{1}{8}$ *	23	3 $\frac{1}{2}$	40 $\frac{1}{8}$

*Not drilled, A and B overall dimensions.

†For B dimensions see Fig. 1.



CR 156 Speed-Controlling Rheostat

CR 155-6-7-8 SPEED-CONTROLLING RHEOSTATS

WITH NO-VOLTAGE AND OVERLOAD RELEASES FOR USE WITH SHUNT, COMPOUND OR SERIES WOUND MOTORS

In general, CR 155-156-157-158 Speed-Controlling Rheostats are the same as CR 151-152-153-154 Rheostats respectively, except that they are provided with overload release coils in addition to no-voltage release coils.

Dimensions of CR 155-156-157-158 Rheostats are the same as CR 151-152-153-154 Rheostats given in the above table.

SPEED-CONTROLLING RHEOSTATS

FOR MACHINE SERVICE

CR 155 RHEOSTATS

Provided with No-voltage and Overload Releases.
Provided with Renewable Segments.

CR 156 RHEOSTATS

Provided with No-voltage and Overload Releases.
Not Provided with Renewable Segments.

Horse-power	LIST PRICES			Horse-power	LIST PRICES		
	115 Volts	230 Volts	550 Volts		115 Volts	230 Volts	550 Volts
1	\$18.50	\$18.50	\$19.50	1	\$16.00	\$16.00	\$16.00
2	19.50	19.50	20.50	2	16.00	16.00	17.00
3	24.50	24.50	24.50	3	17.00	17.00	18.00
5	27.00	27.00	27.00	5	21.50	21.50	21.50
7 $\frac{1}{2}$	35.00	35.00	35.00	7 $\frac{1}{2}$	24.00	24.00	24.00
10	40.00	40.00	40.00	10	31.00	31.00	31.00
15	52.00	62.00	62.00	15	36.00	36.00	36.00
20	58.00	74.00	74.00		48.00	58.00	58.00
	73.00	78.00	98.00			70.00	70.00
	100.00	80.00	117.00			73.00	93.00
	129.00	114.00	134.00				112.00

RHEOSTATS

CR 162 AND 163 SPEED-CONTROLLING RHEOSTATS

FOR USE WITH SHUNT OR COMPOUND WOUND MOTORS

These rheostats are designed for use with variable speed motors, the speed control of which is obtained by varying the resistance inserted in the field circuit. They comprise a starting switch of the type used on CR 107

rheostats. The starting switch, however, is provided with a projection carrying a sliding contact which bears on the contact buttons connected to the field resistance. An auxiliary arm on the right-hand side of the rheostat front serves to retain a short circuit on the field resistance during the period of starting the motor, and on the starting resistance after the motor attains normal speed. The short circuit is also retained on the starting resistance, when the starting arm is turned back to vary the running speed of the motor.

When starting the motor, the starting arm cannot be left in any position on the contact buttons until it has been turned to the right and engaged the auxiliary arm, forcing the latter to be retained by the no-voltage release coil. The auxiliary arm then withholds the spring which affects the starting arm, and thereby makes it possible to leave the starting arm in any position that will give the desired speed control of the motor. Upon failure of voltage the retaining coil is de-energized, releasing the auxiliary arm, which in turn releases the spring that carries the starting arm to the OFF position, thus opening the motor circuit.

To stop the motor the starting arm is thrown to the off position. This de-energizes the retaining magnet, releasing the auxiliary arm which opens the motor circuit. The contacts of the auxiliary arm are designed to take care of any possible arcing and in the larger sizes are protected by an auxiliary carbon block.

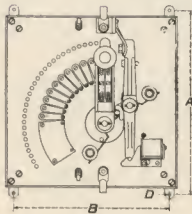
CR 162 RHEOSTATS WITH NO-VOLTAGE RELEASE

CR 163 RHEOSTATS WITH NO-VOLTAGE AND OVERLOAD RELEASE

PRICES COVER RHEOSTATS COMPLETE

PRICES COVER RHEOSTATS COMPLETE

H.P. of Motor	LIST PRICES						H.P. of Motor	LIST PRICES					
	2 to 1 Speed Variation			3 to 1 Speed Variation				2 to 1 Speed Variation			3 to 1 Speed Variation		
	115 V.	230 V.	550 V.	115 V.	230 V.	550 V.		115 V.	230 V.	550 V.	115 V.	230 V.	550 V.
1/4	\$19.00	\$19.00	\$19.00	\$22.00	\$22.00	\$22.00	1/4	\$23.00	\$23.00	\$23.00	\$26.00	\$26.00	\$26.00
1/2	19.00	19.00	19.00	22.00	22.00	22.00	1/2	23.00	23.00	23.00	26.00	26.00	26.00
3/4	19.00	19.00	19.00	22.00	22.00	22.00	3/4	23.00	23.00	23.00	26.00	26.00	26.00
1	19.00	19.00	19.00	22.00	22.00	22.00	1	23.00	23.00	23.00	26.00	26.00	26.00
2	19.00	19.00	19.00	22.00	22.00	22.00	2	23.00	23.00	23.00	26.00	26.00	26.00
3	20.00	20.00	24.00	23.00	23.00	27.00	3	24.00	24.00	28.00	27.00	27.00	31.00
4	24.00	20.00	24.00	29.00	23.00	27.00	4	28.00	24.00	28.00	33.00	27.00	31.00
5	24.00	20.00	24.00	29.00	23.00	27.00	5	28.00	24.00	28.00	33.00	27.00	31.00
7 1/2	26.50	26.00	30.00	32.50	32.00	36.00	7 1/2	30.50	30.00	34.00	36.50	36.00	40.00
10	38.00	31.00	35.00	43.00	34.00	38.00	10	45.00	35.00	39.00	50.00	38.00	42.00
15	44.00	40.00	36.00	49.00	42.00	40.00	15	51.00	43.00	41.00	56.00	45.00	45.00
20	64.00	46.00	46.00	66.00	50.00	48.00	20	70.00	53.00	53.00	72.00	57.00	55.00
25	84.00	52.00	52.00	90.00	58.00	58.00	25	91.00	59.00	59.00	97.00	65.00	65.00
30	84.00	55.00	54.00	90.00	60.00	63.00	30	91.00	62.00	61.00	97.00	67.00	70.00
35	100.00	76.00	76.00	110.00	85.00	85.00	35	100.00	83.00	83.00	120.00	92.00	92.00
40		90.00	90.00		100.00	100.00	40		100.00	100.00		110.00	110.00
50		110.00	100.00		125.00	115.00	50		122.00	111.00		137.00	126.00



DIMENSIONS

The following dimensions apply to CR 162 Rheostats with No-Voltage Release and to CR 163 Rheostats with No-Voltage and Overload Release:

115 VOLTS

H.P. of Motor	DIMENSIONS IN INCHES								H.P. of Motor	DIMENSIONS IN INCHES							
	2 to 1 Speed Variation				3 to 1 Speed Variation					2 to 1 Speed Variation				3 to 1 Speed Variation			
	A	B	C†	D	A	B	C†	D		A	B	C†	D	A	B	C†	D
1	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	5	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$
2	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	7 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$
3	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$
4	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	15	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$
	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	20	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$
	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	25	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$
	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	30	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$
	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	7	3 $\frac{1}{2}$	35	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{3}{4}$	9 $\frac{1}{2}$	3 $\frac{1}{2}$

† C dimension is maximum overall depth. Slight variations from above dimensions may be expected.

RHEOSTATS

CR 162 AND CR 163 SPEED-CONTROLLING RHEOSTATS

FOR USE WITH SHUNT OR COMPOUND WOUND MOTORS

The following dimensions apply to CR 162 Rheostats with No-Voltage Release and to CR 163 Rheostats with No-Voltage and Overload Release.

DIMENSIONS

230 VOLTS

550 VOLTS

H.P. of Motor	DIMENSIONS IN INCHES															
	2 to 1 Speed Variation				3 to 1 Speed Variation				2 to 1 Speed Variation				3 to 1 Speed Variation			
	A	B	C†	D	A	B	C†	D	A	B	C†	D	A	B	C†	D
1	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
2	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
3	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
4	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
5	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
7 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
10	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
15	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
20	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
25	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
30	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
35	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
40	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$
50	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	7	9 $\frac{1}{2}$

† C dimension is maximum overall depth. Slight variations from above dimensions may be expected.

CR 171 PRINTING PRESS CONTROLLERS

WITH NO-VOLTAGE AND OVERLOAD RELEASE FOR USE WITH SHUNT OR COMPOUND WOUND MOTORS



These rheostats are designed particularly for controlling printing press motors, machine tools, or any motor equipment where the full reversing feature is not necessary. They are, however, provided with two contacts for starting the motor slowly in the reverse direction.

The CR 171 Controlling Rheostat is for use in varying the speed of the motor both above and below the normal. It gives a 50 per cent. reduction of speed by armature control and 3 to 1 increase in speed by field control.

These controllers are especially durable since the circuit is made and broken by a contactor. If it is found desirable, remote control can be effected by means of a push button switch especially designed for these rheostats. A dynamic brake is provided for bringing the motor to a quick stop.

Printing press controllers are furnished in 2, 3, 4, 5, 6, 7 $\frac{1}{2}$ and 10 h.p. sizes, for 115, 230 and 550 volts.

PUSH BUTTON SWITCH, 115, 230 AND 550 VOLTS

Cat. No.	Description	List Price
28856	Push Button Switch, with circuit normally CLOSED.....	\$1.00
33559	Push Button Switch, with circuit normally OPEN.....	1.00

For further information reference should be made to the bulletin on this subject. Prices on application.

CR 174 FIELD RHEOSTATS

FOR MOUNTING ON FRONT OR BACK OF PANEL

The resistance used in these rheostats consists of a spiral resistance coil of negligible temperature co-efficient embedded in a special moisture-proof cement which is a good heat conductor and electric insulator.

The handwheels are black and highly polished, but wheels of polished brass, Cat. No. 59286, can be furnished if necessary at an additional list price of \$6.25 each.

The form of rheostat with sprocket wheel shown in Fig. 3 is furnished at an additional list price of \$3.00 each.

The contacts are well spaced to prevent accumulation of dirt or dust. On the 10-inch plates there are 35 divisions of resistance, on the 12-inch plates 50 divisions, and on the 15-inch plates 70 divisions.

RHEOSTATS

CR 174 FIELD RHEOSTATS
FOR MOUNTING ON FRONT OR BACK OF PANEL

125 VOLTS

CAT. NO.		Ohms	AMP. CAPACITY		Ohms of Field to which Rheostat is Suited	No. of Plates in Multiple	Diam. in In. of Plates	LIST PRICE	
Front of Panel	Back of Panel		First Step	Last Step				Front of Panel	Back of Panel
43576	43577	300	.5	.25	300-250	1	10	\$8.25	\$10.00
43578	43579	240	.63	.32	250-200	1	10	8.25	10.00
43580	43581	200	.75	.38	200-165	1	10	8.25	10.00
43582	43583	150	1	.5	165-125	1	10	8.25	10.00
43584	43585	120	1.25	.63	125-100	1	10	8.25	10.00
43586	43587	100	1.5	.75	100-80	1	10	8.25	10.00
43588	43589	75	2	1	80-60	1	10	8.25	10.00
43590	43591	60	2.5	1.25	60-50	1	10	8.25	10.00
43592	43593	50	3	1.5	50-40	1	10	8.25	10.00
43594	43595	37.5	4	2	40-30	1	10	8.25	10.00
43596	43597	30	5	2.5	30-25	1	12	11.00	13.00
43598	43599	25	6	3	25-20	1	12	11.00	13.00
43600	43601	18.8	8	4	20-16	1	12	11.00	13.00
43602	43603	15	10	5	16-13	1	15	14.75	18.25
43606	43607	9.4	16	8	13-10	2	12	20.00	23.00
43608	43609	7.5	20	10	10-8	2	12	20.00	23.00
43638	43639	6.3	25	12.5	8-6.5	2	15	30.00	35.00
43612	43613	5	30	15	6.5-6	3	15	45.00	50.00
43614	43615	3.75	40	20	5-4.2	3	15	45.00	50.00
43616	43617	3	50	25	4.2-3.1	5	15	60.00	68.00
43618	43619	2.5	60	30	3.1-2.5	5	15	75.00	85.00
					2.5-2.1	6	15	90.00	100.00

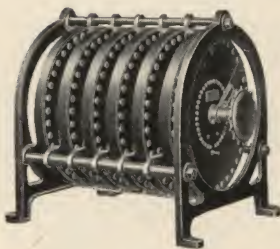
Fig. 1
For Front of PanelFig. 2
For Back of Panel

250 VOLTS

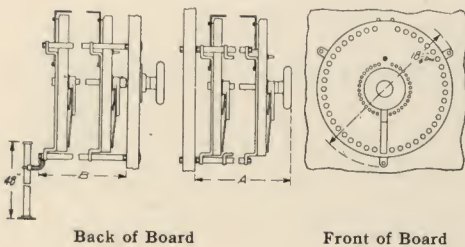
43620	43621	300	1	.5	300-250	1	10	\$8.25	\$10.00
43622	43623	240	1.25	.63	250-200	1	10	8.25	10.00
43624	43625	200	1.5	.75	200-165	1	10	8.25	10.00
43626	43627	150	2	1	165-125	1	10	8.25	10.00
43628	43629	120	2.5	1.25	125-100	1	12	11.00	13.00
43630	43631	100	3	1.5	100-85	1	12	11.00	13.00
43632	43633	75	4	2	85-63	1	12	11.00	13.00
43634	43635	60	5	2.5	63-50	1	15	14.75	18.25
43636	43637	48	6.3	3.2	50-40	1	15	14.75	18.25
43638	43639	37.5	8	4	40-30	2	12	20.00	23.00
43640	43641	30	10	5	30-25	2	15	30.00	35.00
43642	43643	25	12.5	6.3	25-20	2	15	30.00	35.00
43644	43645	20	15	7.5	20-16.5	3	15	45.00	50.00
43646	43647	15	20	10	16.5-12.5	4	15	60.00	68.00
43648	43649	12	25	12.5	12.5-10	5	15	75.00	85.00
43650	43651	10	30	15	10-8.3	6	15	90.00	100.00

550 VOLTS

49144	49145	2000	.6	.3	1000-830	1	15	\$14.75	\$18.25
49146	49147	1600	.7	.35	830-700	1	15	14.75	18.25
49148	49149	1300	.76	.38	700-650	1	15	14.75	18.25
49150	49151	1000	.84	.40	650-600	1	12	11.00	13.00
49152	49153	800	.9	.45	600-550	1	12	11.00	13.00
43652	43653	600	1	.5	550-500	1	10	8.25	10.00
43654	43655	480	1.25	.63	500-400	1	10	8.25	10.00
43656	43657	400	1.5	.75	400-330	1	12	11.00	13.00
43658	43659	300	2	1	330-250	1	12	11.00	13.00
43660	43661	250	2.5	1.25	250-200	1	15	14.75	18.25
43662	43663	200	3	1.5	200-165	1	15	14.75	18.25
43664	43665	150	4	2	165-125	2	12	20.00	23.00
43666	43667	125	5	2.5	125-100	2	15	30.00	35.00
43668	43669	100	6	3	100-85	2	15	30.00	35.00
43670	43671	82	7.5	3.8	85-65	3	15	45.00	50.00
43672	43673	60	10	5	65-50	4	15	60.00	68.00
43674	43675	50	12.5	6.3	50-40	5	15	75.00	85.00
43676	43677	40	15	7.5	40-35	6	15	90.00	100.00

Fig. 3
Sprocket-Driven Rheostat for
Back of Panel

DIMENSIONS



Back of Board

Front of Board

No of Plates	DIMENSIONS IN INCHES					
	10-Inch Plate		12-Inch Plate		15-Inch Plate	
	A	B	A	B	A	B
1	5 1/2	4 3/8	5 1/2	4 3/8	5 1/2	4 3/8
2	8 1/4	7 3/8	8 1/4	7 3/8	8 1/4	7 3/8
3					11 1/4	10 1/4
4					14 1/4	13
5					17 1/4	15 1/4
6					19 1/4	18 1/4

RHEOSTATS

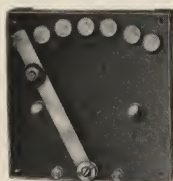
CR 175 SMALL FIELD RHEOSTATS

These rheostats are designed to dissipate 100 watts continuously at 175 degrees C. and while designed for regulating speed of small motors for fans, sewing machines, etc., are used extensively for various other purposes such, for instance, as regulating the heat of electric glue pots, shoe ironing tools, flatirons, and other small heating devices.

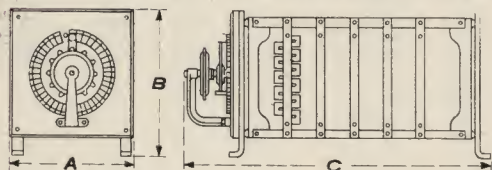
The rheostats consist of a spiral form of resistance enclosed in a base, making a moisture and fireproof construction. They are provided with a 7-point switch. The drilling dimensions are $4\frac{1}{8}$ in. by $4\frac{1}{8}$ in.

The rheostats can be used on either 115 or 230 volt circuits. When ordering, give the CR number, ohms and ampere rating: thus if the first rheostat listed in the following table is desired the order should read, CR 175, 1-10-10.

Ohms	AMPERE CAPACITY		List Price	Ohms	AMPERE CAPACITY		List Price
	First Step	Last Step			First Step	Last Step	
1	10	10	\$1.50	50	1.4	1.4	\$1.50
2.5	6	6	1.50	75	1.2	1.2	1.50
5	4.5	4.5	1.50	100	1	1	1.50
7.5	3.6	3.6	1.50	150	.8	.8	1.50
10	3	3	1.50	200	.8	.7	1.50
15	2.6	2.6	1.50	250	.63	.63	1.50
25	2	2	1.50	300	.58	.58	1.50
35	1.7	1.7	1.50	400	.5	.5	1.50



CR 177 SPROCKET-DRIVEN HEAVY CURRENT FIELD RHEOSTATS



The illustration shows the outline of a field regulating rheostat, combined with a discharge resistance, arranged to be controlled from the switchboard by means of chain and sprocket wheels.

The resistance units consist of cast iron grids which are well adapted to carry heavy currents and to dissipate large amounts of heat.

The sprocket wheel and arm are well insulated from the shaft so that it is impossible to ground the rheostat by means

of the chain used in its operation. The resistance of this line of rheostats varies from .43 to 12 ohms and the capacity from 20 to 350 amperes.

125 VOLTS

Resis. in Ohms.	MAX. AMPS.		DIMENSIONS IN INCHES PER BOX			Boxes per Rheostat	Switch Contacts	List Price
	First Step	Last Step	*A	*B	*C			
2	80	40	18 $\frac{1}{2}$	20	42	1	70	\$195.00
1.5	100	50	18 $\frac{1}{2}$	23	45	1	70	210.00
1.2	125	62.5	18 $\frac{1}{2}$	23	62	1	48	245.00
1	150	75	20	24	64	1	48	285.00
.75	200	100	20	24	64	1	48	300.00
.6	250	125	20	24	76	1	40	350.00
.5	300	150	20	24	56	2	40	425.00
.43	350	175	20	24	70	2	40	525.00

250 VOLTS

7.5	40	20	18 $\frac{1}{2}$	20	48	1	74	\$160.00
6	50	25	20	20	48	1	74	195.00
5	60	30	20	20	48	1	70	240.00
4	80	40	20	20	64	1	70	280.00
3	100	50	20	24	67	1	70	300.00
2.5	125	62.5	20	24	76	1	48	350.00
2	150	75	20	24	56	2	48	420.00
1.5	200	100	20	24	70	2	48	490.00
1.25	250	125	20	24	76	2	40	560.00
1	300	150	20	24	67	3	40	700.00
.85	350	175	20	24	67	3	40	840.00

500 VOLTS

12	50	25	20	20	48	2	74	\$310.00
10	60	30	20	20	48	2	70	350.00
7.5	80	40	20	20	64	2	70	440.00
6	100	50	20	24	70	2	70	490.00
5	125	62.5	20	24	64	3	48	615.00
4	150	75	20	24	70	3	48	665.00
3	200	100	20	24	70	4	48	840.00
2.5	250	125	20	24	76	4	40	1000.00

The above list prices include the rheostat complete with sprocket wheel and discharge resistance, but do not include operating mechanism or field switch.

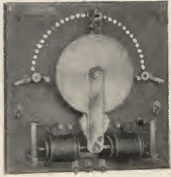
*A—Width.

*B—Height of slate and feet.

*C—Overall length.

RHEOSTATS

CR 178 ELECTRICALLY OPERATED FIELD RHEOSTATS



These rheostats are suitable not only for field control, but for cutting in and out resistance in circuits of other kinds from a remote point, where the automatic "No-Voltage" or "Over Load Release" features are not necessary.

They are provided with an electrically operated ratchet switch. The resistance units are cast grids of the same type used in CR 177 Sprocket-Driven Field Rheostats, and discharge resistances are furnished with them.

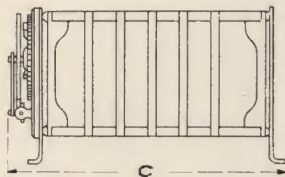
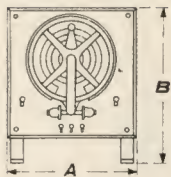
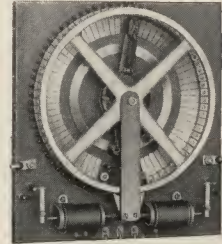


Fig. 1



Fig. 2

The rheostats are shown in two positions in Figs. 1 and 2. In ordering, the position in which the rheostat is to be used should always be stated, as the solenoids are designed to operate below the switch only.

DIMENSIONS

125 VOLTS

Resis. in Ohms	MAX. AMPS.		DIMENSIONS PER BOX Figure 1			Boxes Per Rheostat	Switch Contacts	List Price
	First Step	Last Step	A	B	C			
2	80	40	18½	20	40	1	65	\$275.00
1.5	100	50	18½	20	42	1	65	290.00
1.2	125	62.5	18½	20	60	1	46	335.00
1	150	75	20	24	62	1	46	375.00
.75	200	100	20	24	62	1	46	390.00
.6	250	125	20	24	74	1	40	470.00
.5	300	150	20	24	54	2	40	545.00
.43	350	175	20	24	68	2	40	645.00

250 VOLTS

7.5	40	20	18½	20	46	1	70	\$220.00
6	50	25	20	20	46	1	70	255.00
5	60	30	20	20	46	1	65	320.00
4	80	40	20	20	62	1	65	360.00
3	100	50	20	24	65	1	65	380.00
2.5	125	62.5	20	24	74	1	46	440.00
2	150	75	20	24	54	2	46	510.00
1.5	200	100	20	24	68	2	46	580.00
1.25	250	125	20	24	74	2	40	680.00
1	300	150	20	24	65	3	40	820.00
.85	350	175	20	24	74	3	40	960.00

500 VOLTS

12	50	25	20	20	46	2	70	\$370.00
10	60	30	20	20	46	2	65	430.00
7.5	80	40	20	20	62	2	65	520.00
6	100	50	20	24	68	2	65	570.00
5	125	62.5	20	24	62	3	46	705.00
4	150	75	20	24	68	3	46	755.00
3	200	100	20	24	68	4	46	930.00
2.5	250	125	20	24	74	4	40	1120.00

CR 179 ELECTRICALLY OPERATED RATCHET DRIVEN FIELD RHEOSTAT SWITCHES
GENERAL

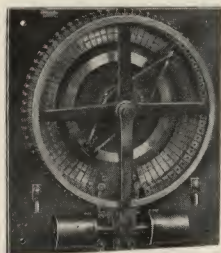
These switches are of the same type as the ones used on CR 178 Electrically Operated Ratchet Driven Field Rheostats, without the field resistance. They are designed particularly for the remote control of field rheostats ranging in capacity from 50 to 200 amperes, and are recommended instead of either motor- or hand-operated switches. Their use is not limited, however, to the operation of field rheostats but can be recommended for cutting in and out resistance from a remote point, where the automatic "No-Voltage" or "Overload Release" features are not necessary.

RHEOSTATS

CR 179 ELECTRICALLY OPERATED RATCHET DRIVEN FIELD
RHEOSTAT SWITCHES (Concluded)

DIMENSIONS

CAPACITY Amperes	DIMENSIONS IN INCHES		
	Width	Height	Thickness of Panel
25	13	13	1
50	18½	18½	1
100	18½	18½	1
200	20	18½	1
350	20	21	1



100 Ampere Solenoid Operated Remote Control Rheostat Switch

PRICES

Amperes	Division	List Price
25	30	\$65.00
50	70	110.00
100	65	160.00
200	46	190.00
350	40	245.00

The above list prices do not include resistances.
The operating solenoids of the standard switches are wound for 125 volts, but they can be furnished for standard voltages up to and including 600 volts.

CR 187 FORM P RESISTANCE UNITS

In the General Electric Company's new unit (Form P) a low temperature co-efficient resistance wire is wound under tension on a non-brittle tube and becomes imbedded in the tube. After being wound, the tube is treated with a special compound both inside and out and a porcelain bushing is inserted in each end; the coating compound cements these bushings in place. The unit is then thoroughly baked and when completed will withstand very rough usage. The coating compound will not crack, nor will it melt or run like enamel; on the contrary it becomes harder when subjected to high temperatures.



CR 187 (Form P) Resistance Unit

Form P units are listed in three sizes known as "A size," "B size," and "C size," their continuous capacity ratings being 100, 150 and 200 watts respectively, when mounted in the open air.

The units are designated by symbols, the numerals of which indicate the resistance, and the letters the size of the tube. For example .25A means a tube of .25 ohms and "A size."

SIZE A 5½ in. long, 1 in. diam. Capacity—100 Watts for continuous duty List Price, \$0.50 each			SIZE B 7½ in. long, 1 in. diam. Capacity—150 Watts for continuous duty List Price, \$0.60 each			SIZE C 11½ in. long, 1 in. diam. Capacity—200 Watts for continuous duty List Price, \$0.75 each			SIZE E 22 in. long, 2 in. diam. 800 Watts continuous duty in the open air List Price \$2.00 each		
Tube Symbol	Ohms	Amp.	Tube Symbol	Ohms	Amp.	Tube Symbol	Ohms	Amp.	Tube Symbol	Ohms	Amp.
.25 A	.25	20	.25 B	.25	24.5	.1 C	.10	45	.25 E	.25	56.5
.3 A	.30	18.3	.3 B	.30	22.4	.2 C	.20	32	.3 E	.30	51.6
.4 A	.40	15.8	.4 B	.40	19.4	.3 C	.30	26	.4 E	.40	44.7
.5 A	.50	14.2	.5 B	.5	17.3	.4 C	.40	22	.5 E	.50	40.0
.75 A	.75	11.5	.75 B	.75	14.1	.5 C	.50	20	.6 E	.60	36.5
1 A	1	10	1 B	1	12.2	.6 C	.60	18	.75 E	.75	32.6
1.25 A	1.25	9	1.25 B	1.25	11	.75 C	.75	16	1 E	1	28.3
1.5 A	1.5	8.1	1.5 B	1.5	10	1 C	1	14	1.25 E	1.25	25.3
2 A	2	7	2 B	2	8.7	1.25 C	1.25	12.5	1.5 E	1.5	23.1
2.5 A	2.5	6.3	2.5 B	2.5	7.8	1.5 C	1.5	11.5	1.75 E	1.75	21.4
3 A	3	5.8	3 B	3	7	1.75 C	1.75	10.7	2 E	2	20.0
4 A	4	5	4 B	4	6.1	2 C	2	10	2.5 E	2.5	17.9
5 A	5	4.5	5 B	5	5.5	2.5 C	2.5	9	3 E	3	16.3
7.5 A	7.5	3.6	7.5 B	7.5	4.5	3 C	3	8.2	3.5 E	3.5	15.1
10 A	10	3.2	10 B	10	3.9	3.5 C	3.5	7.5	4 E	4	14.1
15 A	15	2.6	15 B	15	3.2	4 C	4	7	5 E	5	12.6
20 A	20	2.2	20 B	20	2.7	5 C	5	6.3	6 E	6	11.5
25 A	25	2	25 B	25	2.5	7.5 C	7.5	5.2	6.5 E	6.5	11.1
35 A	35	1.7	35 B	35	2	10 C	10	4.5	7.5 E	7.5	10.3
45 A	45	1.5	45 B	45	1.8	12 C	12	4	10 E	10	8.95
50 A	50	1.4	50 B	50	1.7	15 C	15	3.6	15 E	15	7.30
60 A	60	1.3	60 B	60	1.6	20 C	20	3.1	20 E	20	6.32
75 A	75	1.15	75 B	75	1.4	25 C	25	2.8	25 E	25	5.66
100 A	100	1	100 B	100	1.2	30 C	30	2.6	30 E	30	5.16
125 A	125	.9	125 B	125	1.1	45 C	45	2.1	35 E	35	4.78
150 A	150	.81	150 B	150	1	50 C	50	2	40 E	40	4.47
200 A	200	.7	175 B	175	.93	75 C	75	1.6	45 E	45	4.22
300 A	300	.58	200 B	200	.87	100 C	100	1.4	50 E	50	4.00
500 A	500	.45	250 B	250	.77	125 C	125	1.25	55 E	55	3.81

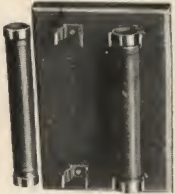
RHEOSTATS

CR 187 FORM P RESISTANCE UNITS (Concluded)

SIZE A			SIZE B			SIZE C			SIZE E		
5½ in. long, 1 in. diam. Capacity—100 Watts for continuous duty			7½ in. long, 1 in. diam. Capacity—150 Watts for continuous duty			11½ in. long, 1 in. diam. Capacity—200 Watts for continuous duty			22 in. long, 2 in. diam. 800 Watts for continuous duty in the open air		
List Price, \$0.50 each			List Price, \$0.60 each			List Price, \$0.75 each			List Price, \$2.00 each		
Tube Symbol	Ohms	Amp.	Tube Symbol	Ohms	Amp.	Tube Symbol	Ohms	Amp.	Tube Symbol	Ohms	Amp.
700 A	700	.38	300 B	300	.7	150 C	150	1.15	60 E	60	3.65
1000 A	1000	.32	350 B	350	.65	200 C	200	1	65 E	65	3.51
2000 A	2000	.22	400 B	400	.61	225 C	225	.95	70 E	70	3.38
3500 A	3500	.17	500 B	500	.55	250 C	250	.9	75 E	75	3.27
			600 B	600	.5	300 C	300	.82			
			700 B	700	.46	325 C	325	.78			
			800 B	800	.43	350 C	350	.75			
			900 B	900	.41	375 C	375	.73			
			1000 B	1000	.39	400 C	400	.71			
			1200 B	1200	.35	450 C	450	.67			
			1400 B	1400	.33	500 C	500	.63			
			1600 B	1600	.31	600 C	600	.58			
			1800 B	1800	.29	700 C	700	.53			
			2000 B	2000	.27	800 C	800	.5			
			3000 B	3000	.22	1000 C	1000	.45			
			4000 B	4000	.19	1200 C	1200	.41			
			5000 B	5000	.17	1400 C	1400	.38			
						1600 C	1600	.35			
						1800 C	1800	.33			
						4800 C	4800	.2			
						5000 C	5000	.2			

CR 188 FORM PM RESISTANCE UNITS

The CR 188 (Form PM) resistance unit is the same as the CR 187 (Form P) unit, except that metal bushings are inserted in the ends of the unit. The terminals of the resistance windings are fastened to the ends of the metal bushings, thus forming a unit which can be inserted directly into clips, as illustrated. The adaptability of CR 188 (Form PM) resistance units as fixed resistances for laboratory or testing purposes or other uses, is self-evident.



ORDERING DIRECTIONS

CR 188 (Form PM) units are made in the same sizes and have the same ratings as CR 187 (Form P) units. The fuse clips, screws, nuts, and washers necessary for supporting the units are covered by Cat. No. 58728, for all sizes. Therefore, in ordering, it is necessary to give only the rating of the unit and the catalogue number above mentioned. For example: .25-A, CR 188 (Form PM) unit and 2 Cat. No. 58728 holders.

PRICES

The prices of CR 188 (Form PM) units are the same as the prices of the CR 187 (Form P) units.

Cat. No. 58728 Fuse Holder, List Price..... \$0.12

Note: 2 fuse holders are necessary for each unit.

TYPE CG CAST GRID RHEOSTATS

NOMENCLATURE

The following explanation of the nomenclature of CG Rheostats will permit exact determination, from the rating of a rheostat, of the number and the size or sizes of grids used, and all facts regarding connections, etc.

Each rheostat is designated by the type letters CG—followed by a group or groups of symbols, separated by dashes. The symbols in each group consist of three parts; viz.—

1. A figure indicating the size or capacity of the grids in the group. The grids are catalogue numbered in serial order in sequence of their resistances. See page 116.

2. A letter indicating the way in which the grids are connected within the group: "A" indicating that the grids are connected in series; "B" indicating that two grids are connected in multiple, the pairs in series; "C" indicating three grids in multiple. In each case the sets are connected in series.

3. A figure indicating the number of grids in the group.

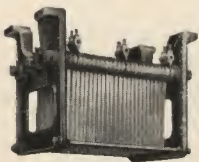
Illustrating the above: CG—8A18 is a rheostat composed entirely of No. 8 grids connected in series, and containing 18 grids.

CG—8B18 is a rheostat composed entirely of No. 8 grids connected two in multiple and containing 18 grids; CG—8C18 indicates that the same grids are used, but that they are connected three in multiple.

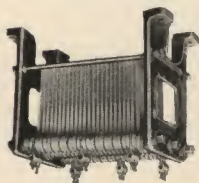
CG—4A12-7B6 indicates that the rheostat contains 12 No. 4 grids connected in series, and six No. 7 grids connected two in multiple, and the groups connected in series.

The old type of grid had terminals cast on the grid itself. The General Electric Company now makes all grids without terminals, connections being made by the use of separate terminals inserted between grids.

On all orders the new type of grid is supplied and the necessary number of terminals should be ordered extra (except when complete CG Rheostats are ordered—in which case 6 terminals are furnished without extra charge.)



Form A Frame



Form C Frame

RHEOSTATS

TYPE CG CAST GRID RHEOSTATS (Concluded)

NOMENCLATURE

Though specially designed for electric railway service, these rheostats are admirably adapted for use with CR 255 Drum Controllers on cranes, hoists, etc.

Type CG Cast Grid Rheostats are of strong mechanical construction and are well adapted to carry heavy currents and withstand rough usage. The grids can be assembled in either of the frames shown, or they can be furnished separately as repair parts. Six cast terminals are furnished with each rheostat unless more are ordered.

Following is a list of standard rheostats:

FORM A—CG RHEOSTATS

4A18	7A18	11A24	7B10-6B8	11A9-9A11	14A8-11A16
4B18	7B18	11B24	9A13-10A5	11A12-8A9	8A3-10A9-6A6
4C18	7C18	12A24	10A9-9A9	11A19-9A3	8A7-6A5-7B6
5A18	8A18	13A24	10A12-6A6	11A20-14A4	12A3-10A9-8A6
5B18	8B18	14A24	10A13-11A6	12A10-10A11	12A6-12B8-11B10
5C18	9A18	4A12-7B6	10A15-8A3	12A11-11A13	12A8-11A8-8A6
6A18	9B18	7B8-6B10	10B16-7B2	14A8-10A12	14A6-12A13-11A5
6B18	10A18				

GRIDS

Cat. No.	No. of Grids Capacity of Form A and C Frames	Size No. of Grid	Resis. per Grid at 70° C.	AMP.		Weights in Lb. per 100	List Price per 100
				Contin-uous Cap. at 175° C. Rise	Intermit. Capacity On 10 Sec. Off 20 Sec. at 250° C. Rise		
26504	18	4	.023	75	150	420	\$65.00
26505	18	5	.030	68	135	360	55.00
26506	18	6	.038	60	120	290	45.00
26507	18	7	.047	55	105	260	40.00
26508	18	8	.059	50	90	200	32.00
26509	18	9	.074	45	80	175	30.00
26510	18	10	.092	40	70	200	32.00
26511	24	11	.092	35	65	190	30.00
26512	24	12	.113	33	60	175	30.00
26513	24	13	.142	31.5	55	160	26.00
26514	24	14	.177	30	50	138	24.00

All the above rheostats have a list price of \$22.75.

FORM C RHEOSTATS

Form C Rheostats are designed to be bolted to the flooring of the car, and take the same frame parts as the Form A, except that end castings Cat. No. 41445 are used in place of Cat. No. 27918.

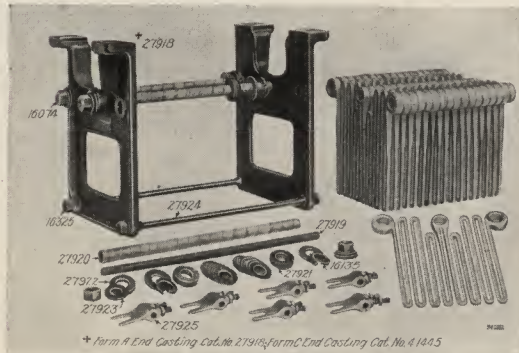
Insulated bolt complete with nut and washers (Cat. No. 48804) for fastening CG rheostats Form A and C to steel frame cars. List price \$0.85 each.

TYPE CG CAST GRID RHEOSTATS

FRAME PARTS

FORM A

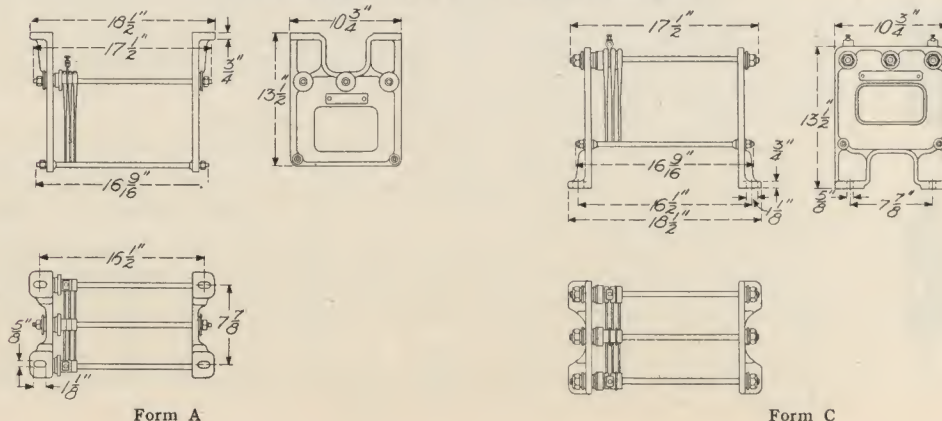
The following is a complete list of parts, which are the same for all Form A-CG Rheostats.



No. Required	Cat. No.	Description	List Price
2	27918	End Casting.....	\$3.00 each
3	27919	Rod for grids.....	.20 each
2	27924	Tie Rod.....	.25 each
3	27920	Mica Insulating Tube.....	.60 each
5	27925	Terminal complete with set screws.....	.20 each
*	27921	Mica Washer, $\frac{1}{8}$ in. x $1\frac{1}{4}$ in. x $\frac{1}{2}$ in.....	1.00 per 100
6	27922	Steel Washer, $\frac{1}{8}$ in. x $1\frac{1}{4}$ in. x $\frac{1}{2}$ in.....	1.35 per 100
6	16135	Lock Washer.....	5.00 per 100
6	27923	Steel Washer, $\frac{1}{8}$ in. x $1\frac{1}{4}$ in. x $\frac{3}{4}$ in.....	1.15 per 100
6	16074	Hexagonal Nut, $\frac{1}{2}$ in.-11..	10.00 per 100
4	16325	Hexagonal Nut, $\frac{1}{2}$ in.-13..	3.00 per 100

*The number of mica washers depends upon the number and arrangement of grids.

DIMENSIONS OF CAST GRID RHEOSTATS



Form A

Form C

RHEOSTATS

CR 211 BATTERY-CHARGING RHEOSTATS

These rheostats are designed for use in connection with charging automobile and other small batteries of secondary cells, and are for use on circuits, the maximum potential of which is 125 volts. The iron grid type of resistance is used in all sizes.

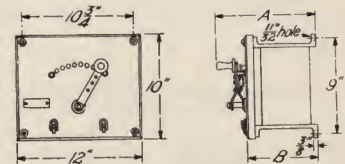


Cat. No.	Type Cells	No. of Cells	Ohms Total	CHARGING AMPERES		Divisions of Resistance	Approx. Shipping Weight Lb.	List Price
				Begin	Finish			
56463	Edison	60-66	.325	130	40	10	178	\$52.00
56464	Lead	40-44	1.3	65	10	10	180	50.00
56465	Lead	24-36	5.4	32.5	10	15	254	55.00
56466	Lead	12-24	8.4	32.5	10	19	290	65.00

CR 213 RHEOSTATS

FOR PROJECTORS AND STEREOPTICON LAMPS

These Lamp Rheostats are for commercial installations and are for use with 9", 13", 18" and 24" projectors and with the stereopticon lamp, on 110-125 volt direct current circuits.



110-125 VOLTS



Cat. No.	List Price	Size of Projector in Inches	Ohms	Amp.	DEPTH IN INCHES	
					A	B
58723	\$20.00	9	8	10	9 ³ / ₁₆	6 ³ / ₄
58724	25.00	Stereo. Lamp	5.4	15	11 ¹ / ₁₆	8 ³ / ₈
58725	30.00	13	4	20	11 ¹ / ₁₆	8 ³ / ₈
58726	35.00	18	2.3	35	15 ¹ / ₁₆	12 ³ / ₈
58727	45.00	24	1.6	50	17 ¹ / ₁₆	14 ¹ / ₄

CR 223 FLOAT SWITCHES

CR 223 Float Switches are made both single and double-pole and are used, in connection with suitable starting rheostats and the usual accessories, namely, float, chain, pulleys and counter weight, for the automatic starting and stopping of motors when it is desired to maintain a predetermined water level.

SELF-CONTAINED STYLE

Fig. 1 illustrates a single-pole float switch.

Fig. 2 illustrates a single-pole, self-contained style of float switch which can be readily mounted directly above a tank. The switch is also furnished double-pole. It is evident from the illustration that this style of switch does not require the usual accessories.

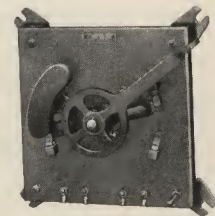


Fig. 1

FLOAT SWITCHES

SELF-CONTAINED FLOAT SWITCHES

Float Switches are furnished in the following sizes.

Cat. No.	Description	AMPERE CAPACITY		List Price	Cat. No.	Description	AMPERE CAPACITY		List Price
		(A.C. or D.C.)					(A.C. or D.C.)		
58971	Single-pole	15	{ at 110/125 Volts	\$9.50	58974	Single-pole	15	{ at 110/125 Volts	\$22.50
		10	{ at 220/250 Volts				10	{ at 220/250 Volts	
		5	{ at 500/550 Volts				5	{ at 500/550 Volts	
58972	Double-pole	25	{ at 125 Volts	18.00	58975	Double-pole	25	{ at 125 Volts	27.50
		15	{ at 250 Volts				15	{ at 250 Volts	
		10	{ at 500/550 Volts				10	{ at 500/550 Volts	

Accessories for use with the above float switches Cat. Nos. 58971 and 58972:—

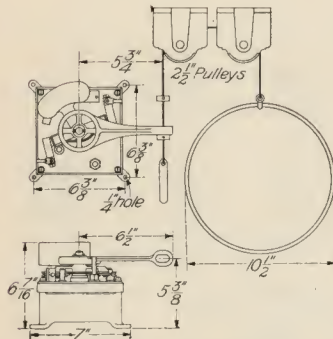
Cat. No. 58973	{ 1 copper ball float 2 pulleys 15 feet brass chain 1 counterweight	List Price \$8.50
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Fig. 2

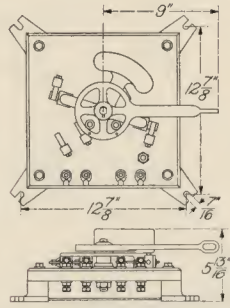
RHEOSTATS

FLOAT SWITCHES (Concluded)

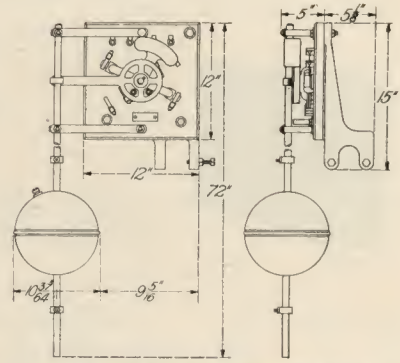
DIMENSIONS



Single-Pole Float Switch Complete with Accessories



Double-Pole Float Switch without Accessories



Double-Pole Self-Contained Float Switch

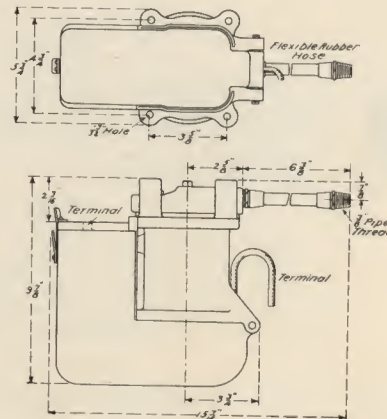


Form D
CR 225 Type MC Pressure
Governor with Cover
Lowered

CR 225 PRESSURE GOVERNORS FOR USE WITH MOTOR-DRIVEN PUMPS

The independent motor-driven pumps, now so extensively used, require, for successful operation, an automatic governor. The function of this governor is to stop the motor when a desired maximum fluid pressure has been obtained, and to start it whenever the pressure falls below a predetermined minimum.

DIMENSIONS



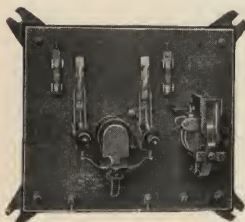
The above diagram gives the general dimensions of the type MC Form B governor. The dimensions of the Form D governor are the same excepting that a McAllen Insulating Joint 3 inches in length is used in place of the (6 3/8 in.) flexible-rubber hose coupling.

AIR COMPRESSOR GOVERNORS (FORM B)

Cat. No.	PRESSURE ADJUSTMENT IN LB.					UP TO 600 VOLTS	List Price
	To Close		To Open		Range	Ampere Capacity	
	Low	High	Low	High			
38556	30	50	40	60	10	12	\$70.00
38557	55	90	65	100	10	12	70.00
38559	90	130	100	140	10	12	70.00
59598	40	120	60	140	20	12	70.00

WATER PRESSURE GOVERNORS (FORM D)

59602	30	50	40	60	10	12	\$70.00
59603	55	90	65	100	10	12	70.00
59604	90	130	100	140	10	12	70.00
59605	40	120	60	140	20*	12	70.00



CR 251 PANELS WITH NO-VOLTAGE AND OVERLOAD RELEASE FOR DRUM CONTROLLERS

Where it is desired to obtain overload and no-voltage protection in connection with drum controllers which do not have these features inherent in their design, the CR 251 panel is recommended. This panel consists of a double-pole circuit-breaker, a single-pole contactor and two fuses, all mounted on a slate base. The slate base is provided with feet, thus permitting a neat installation. The circuit breaker and fuses protect against injurious overload, and the contactor affords the no-voltage protection.

RHEOSTATS

CR 251 PANELS (Concluded)

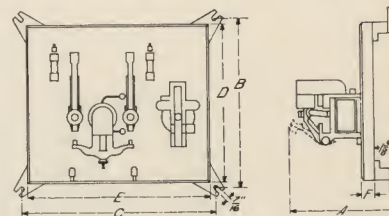
WITH NO-VOLTAGE AND OVERLOAD RELEASE FOR DRUM CONTROLLERS

OPERATION

The operation of these panels depends essentially upon an electrical interlock between the circuit breaker, no-voltage contactor and the drum controller. Greater force is required to close the contactor than is required to hold it closed. Its operation depends upon the energizing of two coils, a "closing coil" and a "holding-coil." When the circuit breaker is closed the "holding-coil" of the contactor is energized, and then when the cylinder of the contactor is turned to the first contact point the "closing-coil" of the contactor is energized also, closing the contactor and thus completing the motor circuit.

When the cylinder of the controller is turned forward to a running point the "closing coil" of the contactor is de-energized. Consequently upon failure of voltage the contactor opens the motor circuit and cannot be closed without turning the controlling cylinder to its first or starting position.

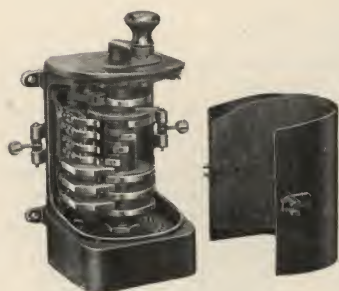
While CR 251 panels are used extensively with equipments for commercial installations, they are designed with particular reference to meet the Government's Specification for direct current electric motors for operating Navy Yard Machinery.



DIMENSIONS OF CR 251 PANEL

H. P.	LIST PRICE			115 Volts						230 Volts						550 Volts					
	115 V	230 V.	550 V.	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
1/2	\$48.00	\$48.00	\$48.00	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	14 1/2	16 1/2	14	16	1
1	48.00	48.00	48.00	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	14 1/2	16 1/2	14	16	1
2	48.00	48.00	48.00	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	14 1/2	16 1/2	14	16	1
3	48.00	48.00	48.00	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	14 1/2	16 1/2	14	16	1
5	48.00	48.00	48.00	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	14 1/2	16 1/2	14	16	1
7 1/2	50.00	48.00	48.00	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	14 1/2	16 1/2	14	16	1
10	50.00	48.00	48.00	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	12 1/2	14 1/2	12	14	1	8 1/2	14 1/2	16 1/2	14	16	1
15	75.00	50.00	48.00	11 1/2	14 1/2	20 1/2	14	20	1 1/2	8 1/2	12 1/2	18 1/2	12	18	1	8 1/2	14 1/2	16 1/2	14	16	1
20	80.00	50.00	50.00	11 1/2	14 1/2	20 1/2	14	20	1 1/2	8 1/2	12 1/2	18 1/2	12	18	1	8 1/2	14 1/2	16 1/2	14	16	1
25	80.00	60.00	50.00	11 1/2	14 1/2	22 1/2	14	22	1 1/2	8 1/2	12 1/2	18 1/2	12	18	1	8 1/2	14 1/2	16 1/2	14	16	1
30	85.00	75.00	50.00	11 1/2	14 1/2	22 1/2	14	22	1 1/2	11 1/2	14 1/2	20 1/2	14	20	1 1/2	8 1/2	14 1/2	18 1/2	14	18	1
35	85.00	80.00	50.00	11 1/2	14 1/2	22 1/2	14	22	1 1/2	11 1/2	14 1/2	20 1/2	14	20	1 1/2	8 1/2	14 1/2	18 1/2	14	18	1
40		80.00	50.00							11 1/2	14 1/2	22 1/2	14	22	1 1/2	8 1/2	14 1/2	18 1/2	14	18	1
50		85.00	50.00							11 1/2	14 1/2	22 1/2	14	22	1 1/2	11 1/2	16 1/2	22 1/2	16	22	1 1/2
60		90.00	60.00							11 1/2	14 1/2	22 1/2	14	22	1 1/2	11 1/2	16 1/2	22 1/2	16	22	1 1/2

CR 253 DRUM TYPE CONTROLLERS



These controllers are designed especially for use with motor-driven machine tools, and, as will be noted, provide a large number of running or "control" points. The armature points are for starting duty only; the field points for continuous duty. The ratings are those of the motors which the controller will operate continuously on any running point. These controllers are made both reversible and non-reversible. The starting resistance in R 75 and R 76 controllers is self-contained; in other sizes it is external. In all of the controllers the field resistance is self-contained, but both starting and field resistances must be ordered separately. Where it is desired to provide for the opening of the motor circuit upon overload or failure of voltage, these controllers should be used in connections with CR 251 panels. CR 253 drum controllers are made in the following sizes:

DRUM TYPE CONTROLLERS

REVERSIBLE

NON-REVERSIBLE

Type	MAX. H. P. CAP.			POINTS FORWARD		POINTS REVERSE		Net Prices of Controller only	Type	MAX. H. P. CAP.			POINTS FORWARD		POINTS REVERSE		Net Prices of Controller only
	115 Volts	230 Volts	550 Volts	Start-ing	Run-ning	Start-ing	Run-ning			115 Volts	230 Volts	550 Volts	Start-ing	Run-ning	Start-ing	Run-ning	
R-75	5	5	5	3	21	3	11	\$35.00	R-76	5	5	5	3	26			\$35.00
R-98	15	30	60	3	24	3	24	66.00	R-99	15	30	60	3	24			66.00
R-85	30	60	120	3	25	3	25	150.00	R-83	30	60	120	3	36			135.00

RHEOSTATS

CR 253 DRUM TYPE CONTROLLERS (Continued)

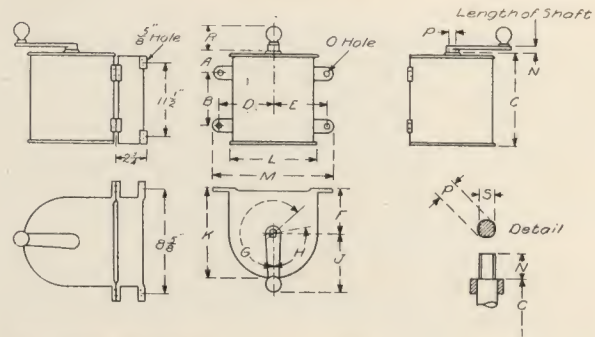
DIMENSIONS

* RESISTANCES

		LIST PRICES OF RESISTANCE ONLY					
		115 Volts		230 Volts		550 Volts	
H.P.	Capacity	Up to and including 3 to 1 Variation	4 to 1 Variation	Up to and including 3 to 1 Variation	4 to 1 Variation	Up to and including 3 to 1 Variation	4 to 1 Variation
1/2	to 5 inc.	\$17.50	\$18.50	\$17.50	\$18.50	\$17.50	\$18.50
5/8	to 7 1/2 inc.	18.00	21.00	18.00	21.00	18.00	21.00
7/8	to 10 inc.	19.00	21.00	19.00	21.00	19.00	21.00
10	to 12 1/2 inc.	31.00	35.00	31.00	35.00	19.00	22.00
12 1/2	to 15 inc.	31.00	35.00	33.00	38.00	21.00	24.00
15	to 17 1/2 inc.	31.00	35.00	35.00	40.00	21.00	24.00
17 1/2	to 20 inc.	33.00	38.00	35.00	40.00	42.00	48.00
20	to 25 inc.	33.00	38.00	35.00	40.00	42.00	48.00
25	to 27 1/2 inc.	33.00	38.00	35.00	40.00	42.00	48.00
27 1/2	to 30 inc.	35.00	40.00	42.00	48.00	50.00	57.00
30	to 32 1/2 inc.	35.00	40.00	50.00	57.00	50.00	57.00
32 1/2	to 35 inc.	42.00	48.00	50.00	57.00	52.00	60.00
35	to 40 inc.	42.00	48.00	50.00	57.00	52.00	60.00
40	to 42 1/2 inc.	42.00	48.00	50.00	57.00	52.00	60.00
42 1/2	to 45 inc.	50.00	57.00	50.00	57.00	52.00	60.00
45	to 50 inc.	50.00	57.00	52.50	60.00	55.00	63.00
50	to 52 1/2 inc.	50.00		52.50		55.00	
52 1/2	to 55 inc.	50.00		52.50		65.00	
55	to 65 inc.	50.00		52.50		65.00	
65 1/2	to 70 inc.	52.50		55.00		65.00	
70 1/2	to 85 inc.	52.50		55.00		65.00	
85 1/2	to 90 inc.	55.00		60.00		65.00	
90 1/2	to 105 inc.	55.00		65.00		70.00	

Prices f. o. b. factory, boxing included.

* The resistances are designed for starting the motor and giving the specified amount of speed variation required by field control up to a maximum of 4 to 1. They are not designed for speed reduction by armature control.



Type	DIMENSIONS IN INCHES						G	H	
	A	B	C	D	E	F			
R75	1 $\frac{5}{8}$	8 $\frac{1}{2}$	12 $\frac{1}{8}$	4 $\frac{1}{4}$	4 $\frac{1}{8}$	3 $\frac{3}{8}$	197°	139°	
R76	1 $\frac{5}{8}$	8 $\frac{1}{2}$	12 $\frac{1}{8}$	4 $\frac{1}{4}$	4 $\frac{1}{8}$	3 $\frac{3}{8}$	225°		
R98	4 $\frac{1}{8}$	14	21 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	5 $\frac{1}{8}$	153°	153°	
R99	4 $\frac{1}{8}$	14	21 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	5 $\frac{1}{8}$	153°		
R85	4 $\frac{1}{8}$	15	22 $\frac{1}{8}$	8 $\frac{1}{8}$	4 $\frac{1}{8}$	4 $\frac{1}{8}$	162°	162°	
R83	4 $\frac{1}{8}$	15	22 $\frac{1}{8}$	8 $\frac{1}{8}$	4 $\frac{1}{8}$	4 $\frac{1}{8}$	245°		
	J	K	L	M	N	P	Q	R	S
R75	4 $\frac{1}{8}$	7 $\frac{3}{8}$	7 $\frac{1}{8}$	9 $\frac{1}{4}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	.562
R76	4 $\frac{1}{8}$	7 $\frac{3}{8}$	7 $\frac{1}{8}$	9 $\frac{1}{4}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	.562
R98	8	10 $\frac{1}{8}$	13 $\frac{1}{8}$	15 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	8 $\frac{1}{8}$	.689
R99	8	10 $\frac{1}{8}$	13 $\frac{1}{8}$	15 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	8 $\frac{1}{8}$	.689
R85	8	9 $\frac{1}{4}$	12 $\frac{1}{8}$	15 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	5 $\frac{1}{8}$	.689
R83	8 $\frac{1}{4}$	9 $\frac{1}{4}$	12 $\frac{1}{8}$	15 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	.689

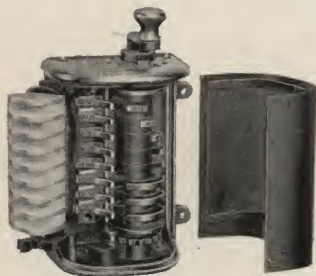
On R75 and R76 Controllers, Field Resistance Box can be mounted as shown in the left-hand part of the diagram.

CR 255 DRUM CONTROLLERS FOR CRANES, HOISTS, ETC.

CR 255 Drum Controllers provide for full-reverse rheostatic control of shunt, series or compound wound motors operating cranes, hoists, etc. The number of points provided are ample for this class of service.

Each controller is provided with the magnetic blowout feature which ensures disruption of the circuit on each finger.

These controllers can be furnished with rope wheel for overhead operation of small cranes from the floor when conditions render this desirable. If intermittent service differs greatly from that usually found in crane or hoist service, inquiry should be made regarding the proper controlling equipment at the nearest district office.



Type	H.P. RATING						Point Forward or Reverse	Net-Price
	Intermittent			* Continuous				
	115	230	550	115	230	550		
R 53A	5	10	10	3	6	6	5	\$40.00
†R 53D	5	10	10]	3	6	6	5	40.00
R 28A	15	25	50	10	15	30	5	55.00
†R 28G	15	25	50	10	15	30	5	55.00
R 27A	20	35	75	12	20	45	9	75.00
†R 27D	20	35	75	12	20	45	9	75.00
R 32A	30	50	100	18	30	60	9	85.00
†R 32B	30	50	100	18	30	60	9	85.00
†R 115A	50	100	200	30	60	120	10	150.00

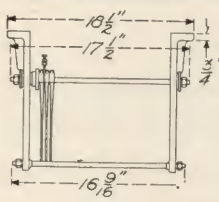
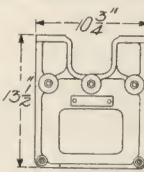
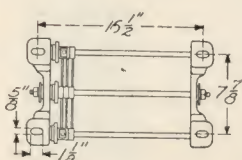
* The continuous duty ratings are the maximum horse-power for which the controller can be used continuously on any point.

† Arranged for back connections.

RHEOSTATS

RHEOSTATS FOR USE WITH CR 255 DRUM CONTROLLERS FOR CRANES, HOISTS ETC.

The following cast iron grid rheostats are especially suited for intermittent or heavy starting service.

		Cat. No.	†H.P.	List Price	Cat. No.	†H.P.	List Price	Cat. No.	†H.P.	List Price
		115 Volts			230 Volts			550 Volts		
		61933	2	\$18.00	61934	2	\$18.00	61936	2	\$18.00
		61937	3	20.00	61938	3	20.00	61939	3	20.00
		46720	5	25.00	46721	5	25.00	46722	5	25.00
		46723	7 1/2	30.00	46724	7 1/2	30.00	46725	7 1/2	30.00
		46726	10	35.00	46727	10	35.00	46728	10	35.00
		46729	15	40.00	46730	15	40.00	46731	15	40.00
		2 CG Rheo.	20	**	2 CG Rheo.	20	**	1 CG Rheo.	20	**
		2 CG Rheo.	25	**	2 CG Rheo.	25	**	4 CG Rheo.	25	**
		2 CG Rheo.	30	**	2 CG Rheo.	30	**	3 CG Rheo.	30	**
		2 CG Rheo.	35	**	2 CG Rheo.	35	**	3 CG Rheo.	35	**
		3 CG Rheo.	40	**	3 CG Rheo.	40	**	3 CG Rheo.	40	**
		3 CG Rheo.	50	**	3 CG Rheo.	50	**	3 CG Rheo.	50	**
					4 CG Rheo.	60	**	4 CG Rheo.	60	**
					4 CG Rheo.	75	**	4 CG Rheo.	75	**
					5 CG Rheo.	85	**	5 CG Rheo.	85	**
					5 CG Rheo.	100	**	5 CG Rheo.	100	**

CR 255 DRUM CONTROLLERS FOR CRANES, HOISTS, ETC.

Type	DIMENSIONS IN INCHES											
	A	B	C	D	E	F	G	H	I	N	O	R
R 53A	19 3/4	12 1/2	10 1/2	6 3/4	8	2 1/2	*	3 3/4	5 1/2			
R 53D	19 3/4	12 1/2	10 1/2	6 3/4	8	2 1/2	*	3 3/4	5 1/2			
R 28A	30	22 1/2	11 1/2	7 1/2	6 1/2	3 1/2	*	4 1/2	6 1/2			
R 28G	30	22 1/2	11 1/2	7 1/2	6 1/2	3 1/2	*	4 1/2	6 1/2			
R 27A	40 1/2	32 1/2	15 1/2	8 1/2	8	3 1/2	17 1/2	4 1/2	8 1/2	7 1/2	7 1/2	320°
R 27D	40 1/2	32 1/2	15 1/2	8 1/2	8	3 1/2	17 1/2	4 1/2	8 1/2	7 1/2	7 1/2	332°
R 32A	40 1/2	32 1/2	15 1/2	8 1/2	8	3 1/2	17 1/2	4 1/2	8 1/2	7 1/2	7 1/2	332°
R 32B	40 1/2	32 1/2	15 1/2	8 1/2	8	3 1/2	17 1/2	4 1/2	8 1/2	7 1/2	7 1/2	332°
R 115A	39 1/2	31 1/2	19 1/2	10 1/2	8	5 1/2	10	8 1/2	8 1/2	8 1/2	8 1/2	284°

Holes provided only for bolting to wall support.

† The H.P. ratings of these rheostats are for intermittent duty and the rheostats may, therefore, be used for very heavy starting service.

** List Price \$22.75.

CR 257 TYPE T ALTERNATING CURRENT DRUM CONTROLLERS FOR STARTING AND CONTROLLING THE SPEED—FOR USE WITH SLIP RING AND SQUIRREL-CAGE TYPE OF INDUCTION MOTORS

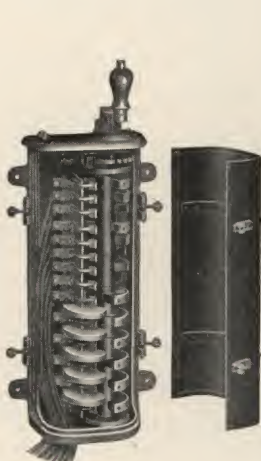


Fig. 1

CR 257 Type T Controller for Slip-Ring Type of Induction Motor, where the Primary Voltage does not exceed 550 Volts

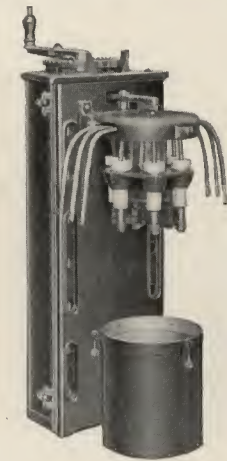


Fig. 2

Controller for a Slip-Ring Type Motor the Primary Voltage of which is greater than 550 Volts

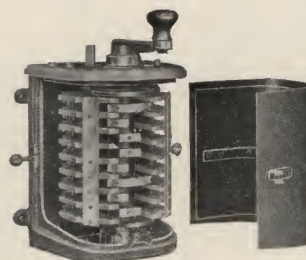


Fig. 3

For Controlling Squirrel Cage or General Electric Company's Form K Induction Motors



Fig. 4

Controller with Contacts Immersed in Oil, Recommended for Installations with a Slip-Ring Type Motor in such Places as Powder Mills or Coal Mines where Sparking at the Contacts might cause Fire

RHEOSTATS

CR 257 TYPE T ALTERNATING CURRENT DRUM CONTROLLERS (Continued)
FOR STARTING AND CONTROLLING THE SPEED—FOR USE WITH SLIP RING AND SQUIRREL CAGE
TYPE OF INDUCTION MOTORS

For starting or for regulating the speed of induction motors under severe conditions of service with reference to frequency of operation, the General Electric Company recommends CR 258 Type T, drum or cylinder type of controllers. Where the conditions are exceptionally severe, as in steel mills and coal hoists, the General Electric Company's well-known Type M Control System is recommended.

No combustible material except as permitted by the Underwriters' specification is used in CR 257 controllers and they are provided with easily removable covers.

Because of the wide variation of secondary current in motors of the same horse-power rating, it has been found advisable to rate these controllers by current capacity instead of by horse-power.

Type	** Fig. No.	MOTORS		CURRENT PER PHASE				MAX. VOLTAGE		POINTS		Net Price
				INTERMITTENT		CONTINUOUS						
		Phase	Form	Primary	Secondary	Primary	Secondary	Primary	Secondary	For'd	Reverse	
T A	1	3	M	125	125	75	75	550	550	8	8	\$50.00
†T 1H	1	3	M	150	150	115	115	550	550	8	8	60.00
T 10A	1	3	M	150	150	90	90	550	550	11	11	90.00
†T 10J		3	M	200	200	150	150	550	550	11	11	100.00
*T 11A	1	2 or 3	P		600		360		550	7		190.00
*T 20A	1	2 or 3	P		300		180		550	7		75.00
T 26A	1	2	M	150	150	90	90	550	550	11	11	125.00
†T 28A	2	2 or 3	M	125	500	75	300	2200	550	14	14	365.00
*T 29A		2 or 3	M		500		300		550	14		160.00
T 34A	1	2	M	125	125	75	75	550	550	8	8	90.00
†T 34E	1	3	M	150	150	115	115	550	550	8	8	80.00
†T 36A	2	2 or 3	M	75	200	45	120	2200	550	14	14	260.00
T 40A	3	2 or 3	K	50		30		550		4	4	50.00
§T 41A		3	M	150	150	90	90	550	550	10	10	115.00
T 42A	1	3	M	300	300	180	180	550	550	14	14	180.00

* Starting service only, does not control primary current.

† These controllers differ from the corresponding A Type in having separate holes in the controller frame for each lead. The holes are provided with rubber bushings and the finger bases serve as terminals.

‡ Primary in oil.

§ Contacts immersed in oil for use in powder mills, coal mines, etc.

All reversing controllers reverse by single handle.

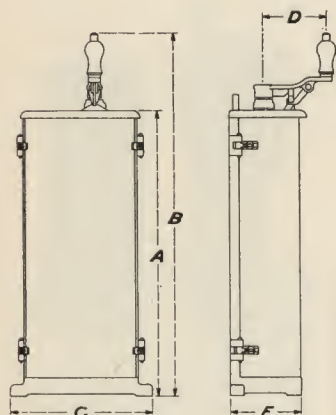
Type M Motors are controlled by resistance in the secondary circuit.

Type P Motors are started by resistance in the secondary circuit.

Type K Motors have the squirrel-cage rotor, primary control.

The Form P motor was formerly known as Form LM.

**Refers to illustrations on page 121.



Controller	DIMENSIONS IN INCHES				
	A	B	C	D	E
T 1A	22 $\frac{1}{2}$	30	10 $\frac{1}{2}$	5 $\frac{1}{4}$	7 $\frac{5}{8}$
T 1H	22 $\frac{1}{2}$	30	10 $\frac{1}{2}$	5 $\frac{1}{4}$	7 $\frac{5}{8}$
T 10A	32 $\frac{1}{2}$	40 $\frac{1}{2}$	15 $\frac{1}{2}$	7	8 $\frac{1}{2}$
T 10J	32 $\frac{1}{2}$	40 $\frac{1}{2}$	15 $\frac{1}{2}$	7	8 $\frac{1}{2}$
T 11A	32 $\frac{1}{2}$	39 $\frac{1}{2}$	15 $\frac{1}{2}$	7	8 $\frac{1}{2}$
T 20A	22 $\frac{1}{2}$	29 $\frac{1}{2}$	10 $\frac{1}{2}$	5	8 $\frac{1}{2}$
T 26A	32 $\frac{1}{2}$	40 $\frac{1}{2}$	15 $\frac{1}{2}$	7	9 $\frac{1}{2}$
T 28A	40 $\frac{1}{2}$	47 $\frac{1}{2}$	17 $\frac{1}{2}$	11	12 $\frac{1}{2}$
T 29A	40 $\frac{1}{2}$	47 $\frac{1}{2}$	17 $\frac{1}{2}$		12 $\frac{1}{2}$
T 34A	27 $\frac{1}{2}$	34 $\frac{1}{2}$	11 $\frac{1}{2}$	5 $\frac{1}{4}$	6 $\frac{1}{2}$
T 34E	27 $\frac{1}{2}$	34 $\frac{1}{2}$	11 $\frac{1}{2}$	5 $\frac{1}{4}$	6 $\frac{1}{2}$
T 36A	40 $\frac{1}{2}$	47 $\frac{1}{2}$	17 $\frac{1}{2}$	11	12 $\frac{1}{2}$
T 40A	12 $\frac{1}{2}$	16	10 $\frac{1}{2}$	5	8
T 41A	24 $\frac{1}{2}$	31 $\frac{1}{2}$	10 $\frac{1}{2}$	5 $\frac{1}{4}$	9 $\frac{1}{2}$
T 42A	40 $\frac{1}{2}$	47 $\frac{1}{2}$	17 $\frac{1}{2}$	11	12 $\frac{1}{2}$

SWITCHBOARD PANELS

SMALL PLANT DIRECT CURRENT COMBINATION GENERATOR AND FEEDER

PANELS FOR 125 AND 250 VOLTS

DOUBLE POLARITY, 64 INCHES HIGH

0.8 to 17 Kw. at 125 Volts—1.6 to 34 Kw. at 250 Volts—With Enclosed Fuses

These panels are designed for the control of two-wire generators and feeders in small capacity plants containing only one generator. Provision is made for the control of two-feeder circuits, capacity of fuses being as given in the following pages unless otherwise specified in the order.

Rheostat supports are adjustable both vertically and horizontally, thus allowing for a considerable range in the dimensions of rheostats.

Suitable panel pipe supports and braces are included with the panels.

These panels are all NATURAL BLACK SLATE.

Blue Vermont marble or black enameled slate may be substituted.



PANELS WITH VOLTMETERS

These panels are each equipped with:

- 1 Two-lamp ground detector;
- 1 Type R ammeter;
- 1 175 or 350 volt type R voltmeter;
- 1 Rheostat handwheel and brackets for mounting;
- 1 D.P.S.T. Form D lever switch with enclosed fuses, for generator;
- 2 D.P.S.T. Form D lever switches with enclosed fuses, for feeders.

PANELS WITHOUT VOLTMETERS

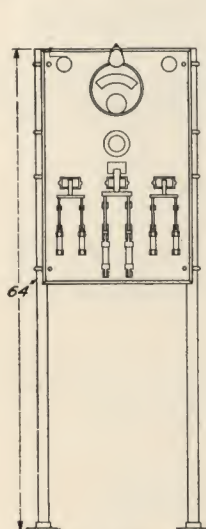
These panels are each equipped with:

- 1 Two-lamp ground detector;
- 1 Type R ammeter;
- 1 Pilot lamp;
- 1 Rheostat handwheel and brackets for mounting;
- 1 D.P.S.T. Form D lever switch with enclosed fuses, for generator;
- 2 D.P.S.T. Form D lever switches with enclosed fuses, for feeders.

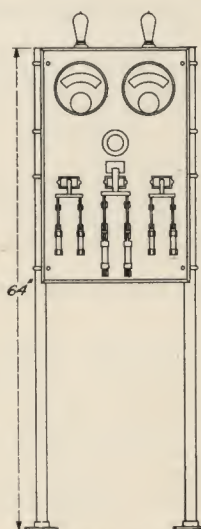
Panels with voltmeters are recommended, but the line without voltmeters has been standardized for use in plants where the operators are satisfied with the approximate voltage indications which can be obtained from the pilot lamp.

RATINGS

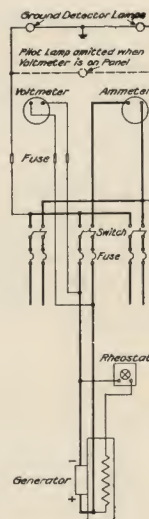
Panels should not be used with machines of capacities exceeding those given in the kilowatt column. These kilowatt ratings are based on overloads of 25 per cent. for one or two hours and 65 per cent. momentarily. Divide by 1.2 for overloads of 50 per cent. for one or two hours and 100 per cent. momentarily.



Panel without
Voltmeter



Panel with
Voltmeter



Connections of Panel
with Voltmeter

SWITCHBOARD PANELS

SMALL PLANT DIRECT CURRENT COMBINATION GENERATOR AND FEEDER PANELS FOR 125 AND 250 VOLTS (Continued)

DOUBLE POLARITY, 64 INCHES HIGH

0.8 to 17 Kw. at 125 Volts—1.6 to 34 Kw. at 250 Volts—With Enclosed Fuses

SMALL PLANT PANELS WITH VOLTMETERS

*KW. OF GENERATOR		AMP. CAPACITY					Size of Panel in Inches	Approx. Shipping Weight in Lb.	CAT. NO.	
125 Volts	250 Volts	Panel	Ammeter	Generator Switch	Feeder Switches	Feeder Fuses			125 Volts	250 Volts
.8	1.6	8	10	30	30	5	31 x 16 x 1½	325	73229	73240
1.25	2.5	12	15	30	30	8	31 x 16 x 1½	325	73230	73241
1.6	3.25	16	20	30	30	10	31 x 16 x 1½	325	73231	73242
2.5	5	25	30	30	30	15	31 x 16 x 1½	325	73232	73243
3	6	30	40	30	30	20	31 x 16 x 1½	325	73233	73244
5	10	50	60	60	30	30	31 x 16 x 1½	325	73234	73245
6.5	13	65	80	100	60	40	31 x 20 x 1½	350	73235	73246
8.5	17	80	100	100	60	50	31 x 20 x 1½	350	73236	73247
10	20	100	150	100	60	60	31 x 20 x 1½	350	73237	73248
12.5	25	125	150	200	100	75	36 x 24 x 1½	400	73238	73249
17	34	160	200	200	100	100	36 x 24 x 1½	400	73239	73250

SMALL PLANT PANELS WITHOUT VOLTMETERS

*KW. OF GENERATOR		AMP. CAPACITY					Size of Panel in Inches	Approx. Ship. Wt. in Lbs.	Cat. No. 125 and 250 Volts	
125 Volts	250 Volts	Panel	Ammeter	Generator Switch	Feeder Switches	Feeder Fuses			125 Volts	250 Volts
.8	1.6	8	10	30	30	5	31 x 16 x 1½	275	73218	
1.25	2.5	12	15	30	30	8	31 x 16 x 1½	275	73219	
1.6	3.25	16	20	30	30	10	31 x 16 x 1½	275	73220	
2.5	5	25	30	30	30	15	31 x 16 x 1½	275	73221	
3	6	30	40	30	30	20	31 x 16 x 1½	275	73222	
5	10	50	60	60	30	30	31 x 16 x 1½	275	73223	
6.5	13	65	80	100	60	40	31 x 20 x 1½	300	73224	
8.5	17	80	100	100	60	50	31 x 20 x 1½	300	73225	
10	20	100	150	100	60	60	31 x 20 x 1½	300	73226	
12.5	25	125	150	200	100	75	36 x 24 x 1½	350	73227	
17	34	160	200	200	100	100	36 x 24 x 1½	350	73228	

* Kw. ratings are based on overloads of 25% for one or two hours and 65% momentarily. Divide by 1.2 for overloads of 50% for one or two hours and 100% momentarily.

ISOLATED PLANT SWITCHBOARD PANELS WITH FUSES

These panels provide for controlling 125-volt generators of from 5 to 60 kw. capacity, and 250-volt generators of from 10 to 120 kw. capacity. They also provide for the control of two, four and six feeder circuits up to 400 amperes capacity. The panels are intended for small isolated plants and are not designed for installation with central station switchboards.

Panels are made in the following styles:

- 1—Generator Panels with Thomson Feeder Type Ammeters.
- 2—Generator Panels with Type R Ammeters.
- 3—Feeder Panels without Instruments.
- 4—Combined Generator and Four- or Six-Circuit Feeder Panels with Thomson Feeder Type Instruments.
- 5—Combined Generator and Four- or Six-Circuit Feeder Panels with Type R Instruments.

GENERATOR PANELS

The Generator Panels are designed for use with the feeder panels described below, to form a complete switchboard. Their equipment consists of:

- 1 Thomson Feeder Type or Type R Ammeter;
- 1 Handwheel and Support for Field Rheostat;
- 1 4-point Potential Receptacle;
- 1 Triple-pole, Single-throw Lever Switch with Enclosed Fuses;
- 2 Spare Fuses;
- 1 Card Holder placed above the Switch;

Necessary vertical pipe supports, floor flanges, clamps and tie rods for bracing the panels.

Generator panels are not furnished with voltmeters or ground detector lamps; these should be ordered separately from the list on pages 125 and 126. The catalogue numbers given in these lists each include the voltmeter mounted on a swinging bracket with two ground detector lamps and one 4-point potential plug. The complete outfit can, therefore, be used both for reading the voltage of any one of a number of generators and for detecting grounds.



Combination Generator and Feeder Panel



Six-Circuit Feeder Panel without Instruments

SWITCHBOARD PANELS

ISOLATED PLANT SWITCHBOARD PANELS WITH FUSES

FEEDER PANELS

The equipment of these panels consists of:

- 2, 4 or 6 Double-pole, Single-throw Lever Switches with Enclosed Fuses;
- 3 Spare Fuses;

Necessary vertical pipe supports, floor flanges, clamps and tie rods for bracing the panels.

A card holder is supplied for each feeder circuit. As stated above, these feeder panels are for use with separate generator panels to form a complete switchboard, and are provided with bus bars for connection to corresponding bus bars on the generator panels.

COMBINATION GENERATOR AND FEEDER PANELS

The equipment of Combination Generator and Feeder Panels consists of:

- 2 Ground Detector Lamps;
- 1 Thomson Feeder Type or Type R Ammeter;
- 1 Thomson Feeder Type or Type R Voltmeter;
- 1 Handwheel and Support for Field Rheostat;
- 1 Double-pole Single-throw Lever Switch with Enclosed Fuses for Generator;
- 4 or 6 Double-pole Single-throw Feeder Switches with Enclosed Fuses;
- 3 Spare Fuses of each different capacity;
- A Card Holder placed above each switch;

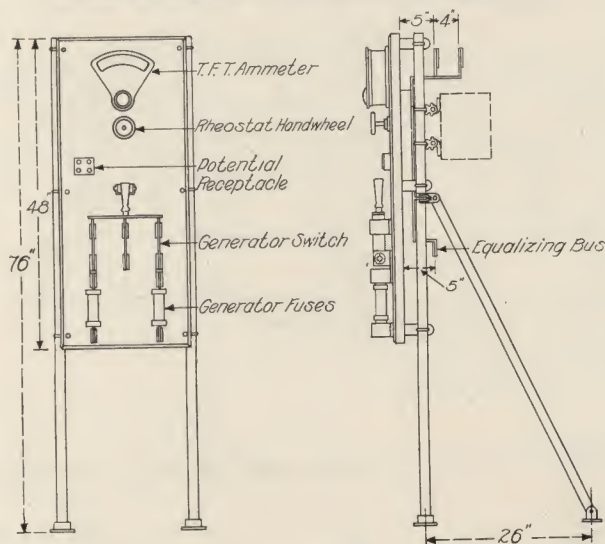
Necessary vertical pipe supports, floor flanges, clamps and tie rods for bracing the panels.

PANELS, SUPPORTS AND FINISH

All panels are of natural black slate $1\frac{1}{2}$ in. thick.

The rheostat mounting consists of two horizontal supports clamped to the vertical panel supports with vertical adjustment, each carrying two clamps which can be adjusted in a horizontal direction. This method of adjustment allows a wide range in the dimensions of the rheostats which can be mounted.

125 AND 250 VOLT GENERATOR PANELS WITH THOMSON FEEDER TYPE AMMETERS



* KW. CAPACITY OF GEN. NOT TO EXCEED		AMP. CAPACITY			Width of Panel (Inches)	Approx. Shipping Weight (Lb.)	CAT. NO.	
125 Volts	250 Volts	Panel	Ammeter	Switch			125 Volts	250 Volts
5	10	50	60	60	16	400	44199	44208
6.5	13	65	80	100	16	400	44200	44209
8.5	17	80	100	100	16	400	44201	44210
13	26	125	150	200	16	400	44202	44211
17	34	160	200	200	16	400	44203	44212
25	50	250	300	400	16	400	44204	44213
34	68	320	400	400	16	400	44205	44214
50	100	500	600	600	20	450	44206	44215
60	120	600	800	600	20	450	44207	44216

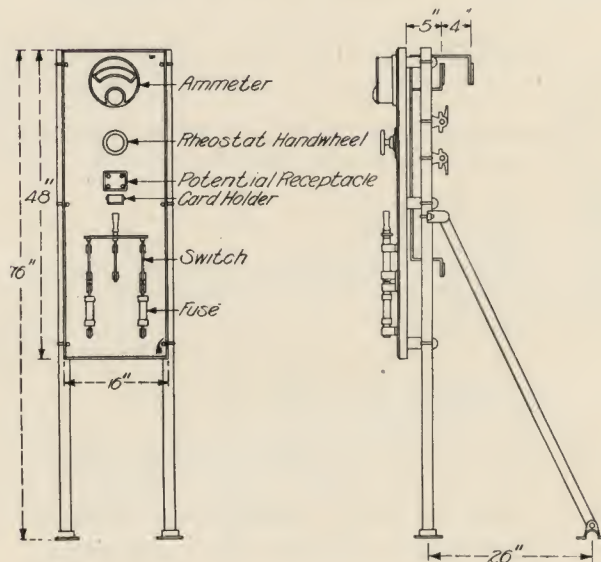
* Kw. ratings based on overloads of 25 per cent. for one or two hours. For 50 per cent. guarantees divide by 1.2.

Order Voltmeter on swinging bracket { Cat. No. 58437, 175 volt scale.
Cat. No. 58438, 350 volt scale.

SWITCHBOARD PANELS

125 AND 250 VOLT GENERATOR PANELS

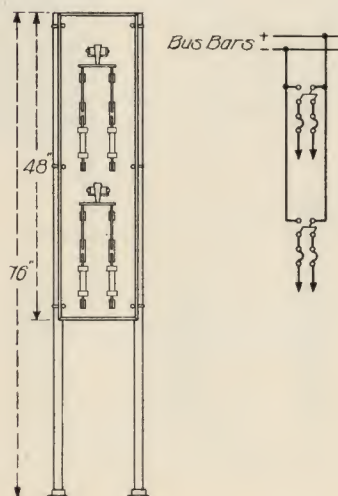
WITH TYPE R AMMETERS



* KW. CAPACITY OF GENERATOR NOT TO EXCEED		AMP. CAPACITY			Width of Panel (Inches)	Approx. Ship. Wt. (Lb.)	Cat. Nos. 125 and 250 Volts
125 Volts	250 Volts	Panel	Ammeter	Switch			
5	10	50	60	60	16	400	49364
6.5	13	65	80	100	16	400	49365
8.5	17	80	100	100	16	400	49366
13	26	125	150	200	16	400	49367
17	34	160	200	200	16	400	49368

* Kilowatt ratings based on overloads of 25 per cent. for one or two hours. For 50 per cent. guarantees divide by 1.2.

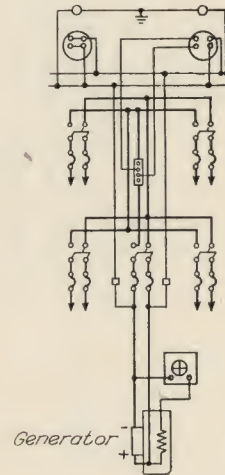
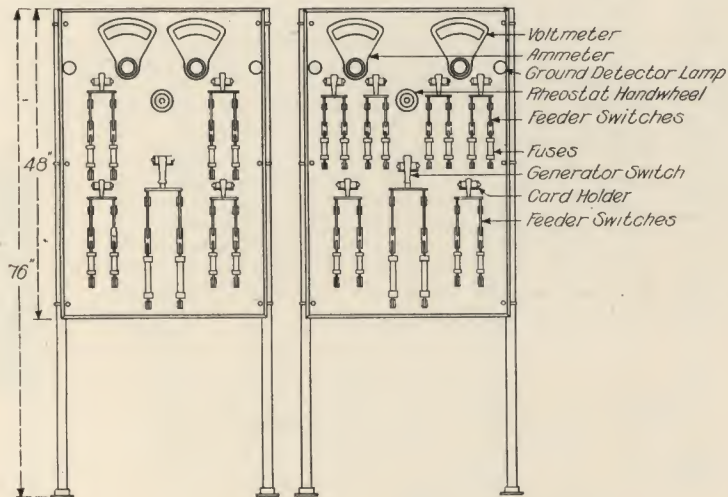
Order voltmeter on swinging bracket { Cat. No. 58304, 175 volt scale.
Cat. No. 58305, 350 volt scale.



125 AND 250 VOLT FEEDER PANELS

No. of Feeders Per Panel	Amp. Cap. of Each Feeder	Width of Panel (Inches)	Approx. Ship. Wt. (Lb.)	Cat. No.	No. of Feeders Per Panel	Amp. Cap. of Each Panel	Width of Panel (Inches)	Approx. Ship. Wt. (Lb.)	Cat. No.
2	60	12	350	44217	4	200	20	450	44223
2	100	12	350	44218	4	400	20	450	44224
2	200	12	350	44219	6	60	20	450	44225
2	400	12	350	44220	6	100	24	500	44226
4	60	16	400	44221	6	200	32	600	44227
4	100	16	400	44222	6	400	32	600	44228

SWITCHBOARD PANELS **125 AND 250 VOLT COMBINATION PANELS** **WITH THOMSON FEEDER TYPE INSTRUMENTS**



FOUR-CIRCUIT PANELS

* KW. CAPACITY OF GEN. NOT TO EXCEED		AMP. CAPACITY				Width of Panel (Inches)	Approx. Shipping Weight (Lb.)	CAT. NO.	
125 Volts	250 Volts	Panel	Ammeter	Generator Switch	Feeder Switches			125 Volts	250 Volts
5	10	50	60	60	4- 30	24	550	44239	44247
6.5	13	65	80	100	4- 30	24	550	44240	44248
8.5	17	80	100	100	4- 60	24	550	44241	44249
13	26	125	150	200	4- 60	24	550	44242	44250
17	34	160	200	200	4-100	24	600	44243	44251
25	50	250	300	400	4-100	24	600	44244	44252
34	68	320	400	400	4-200	32	750	44245	44253
50	100	500	600	600	4-200	32	750	44246	44254

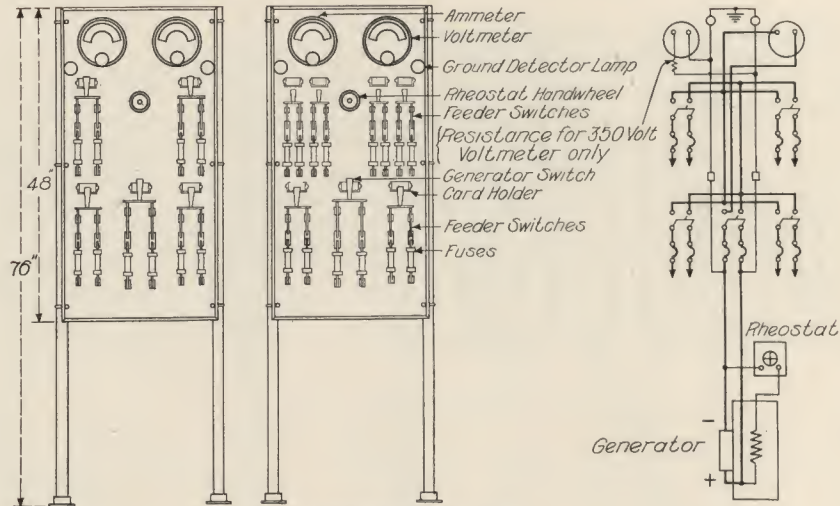
SIX-CIRCUIT PANELS

5	10	50	60	60	6- 30	24	550	44265	44273
6.5	13	65	80	100	6- 30	24	550	44266	44274
8.5	17	80	100	100	2- 60	24	550	44267	44275
					4- 30				
13	26	125	150	200	2- 60	24	550	44268	44276
					4- 30				
17	34	160	200	200	2-100	32	700	44269	44277
					4- 60				
25	50	250	300	400	2-100	32	700	44270	44278
					4- 60				
34	68	320	400	400	2-200	32	750	44271	44279
					4-100				
50	100	500	600	600	2-200	32	750	44272	44280
					4-100				

* Kw. ratings based on overloads of 25 per cent. for one or two hours. For 50 per cent. guarantees divide by 1.2.

SWITCHBOARD PANELS

125 AND 250 VOLT COMBINATION PANELS WITH TYPE R INSTRUMENTS



FOUR-CIRCUIT PANELS

* KW. CAPACITY OF GEN. NOT TO EXCEED		AMP. CAPACITY				Width of Panel (Inches)	Approx. Shipping Weight (Lb.)	CAT. NO.	
125 Volts	250 Volts	Panel	Ammeter	Generator Switch	Feeder Switches			125 Volts	250 Volts
5	10	50	60	60	4- 30	24	550	44229	44234
6.5	13	65	80	100	4- 30	24	550	44230	44235
8.5	17	80	100	100	4- 60	24	550	44231	44236
13	26	125	150	200	4- 60	24	550	44232	44237
17	34	160	200	200	4-100	24	600	44233	44238

SIX-CIRCUIT PANELS

5	10	50	60	60	6- 30	24	550	44255	44260
6.5	13	65	80	100	6- 30	24	550	44256	44261
8.5	17	80	100	100	2- 60	24	550	44257	44262
					4- 30	24			
13	26	125	150	200	2- 60	24	550	44258	44263
					4- 30	24			
17	34	160	200	200	2-100	32	700	44259	44264
					4- 60	32			

* Kw. ratings based on overloads of 25 per cent. for one or two hours. For 50 per cent. guarantees divide by 1.2.

ISOLATED PLANT SWITCHBOARD PANELS WITH CIRCUIT BREAKERS

These panels provide for controlling 125 volt generators of from 5 to 120 kw. capacity, and 250 volt generators of from 10 to 240 kw. capacity. They also provide for the control of from two to six feeder circuits. Their design is the result of long experience and most careful engineering in the minutest details. Every unnecessary feature is eliminated and the panel as a whole is made as simple and compact as possible. The parts can be readily replaced and are easily accessible. The panels are intended for small isolated plants and are not designed for installation with a central station switchboard.

GENERATOR PANELS

The equipment of the generator panels consists of:

- One Double-pole, Overload Circuit Breaker;
- One Thomson Feeder Type or Type R Ammeter;
- One Handwheel and Support for Field Rheostat;
- One Four-point Potential Receptacle;
- One Single-pole, Single-throw Equalizer Switch;
- One Card Holder;
- Necessary vertical pipe supports, floor flanges and clamps;
- Necessary tie rods for bracing the panels.



Combination Panel
with Thomson Feeder
Type Instruments

SWITCHBOARD PANELS

ISOLATED PLANT SWITCHBOARD PANELS WITH CIRCUIT BREAKERS (Continued)

The installation of one of these panels where the load is fluctuating and the protective feature is often called into service, is particularly advantageous as the circuit breakers obviate the necessity of replacing fuses and of keeping in stock a supply of extra fuses.

The reliable operation of the Type C, Forms G and P circuit breakers renders the use of switches in series with them unnecessary on these panels, hence the generator leads are connected directly to the circuit breakers, and a single pole switch is provided for the equalizer lead.

Voltmeters are not furnished with generator panels, but voltmeters on swinging brackets for mounting at the end of the switchboard are listed on pages 129 and 130.

With the voltmeter is included a four-point potential plug for plugging in the potential receptacles on the generator panels, for the purpose of reading the voltage of any generator before connecting it to the buses.

FEEDER PANELS

The equipment of the feeder panels consists of:

- One double-pole, overload circuit breaker for each feeder circuit;
- Necessary vertical pipe supports, floor flanges and clamps;
- Necessary tie rods for bracing the panels.

These feeder panels are for use with the generator panels to form a complete switchboard and are provided with bus bars for connection to corresponding bus bars on the generator panels. A card holder is supplied for each feeder circuit.

COMBINATION GENERATOR AND FEEDER PANELS

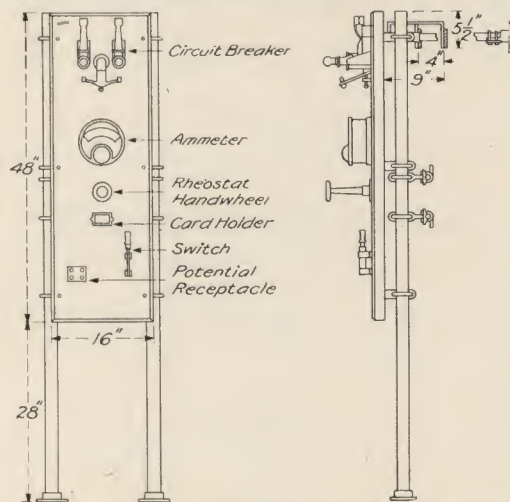
The equipment of these panels consists of:

- Two ground detector lamps;
- One Thomson feeder type or Type R ammeter;
- One Thomson feeder type or Type R voltmeter;
- One handwheel and support for field rheostat;
- One double-pole, generator switch;
- Two enclosed fuses with clips (mounted on back of panel);
- Three spare fuses;
- Four or six double-pole feeder circuit breakers;
- Two vertical pipe supports, floor flanges and clamps;
- Two tie rods for bracing panel.

Enclosed fuses are provided for the generator circuit to protect the generator from accidental short circuits on the back of the panel.

The panels are of natural black slate $1\frac{1}{2}$ in. thick, securely clamped by malleable and wrought iron clamps to $1\frac{1}{4}$ in. vertical supporting pipes, 76 in. high.

125 AND 250 VOLT GENERATOR PANELS WITH TYPE R AMMETERS



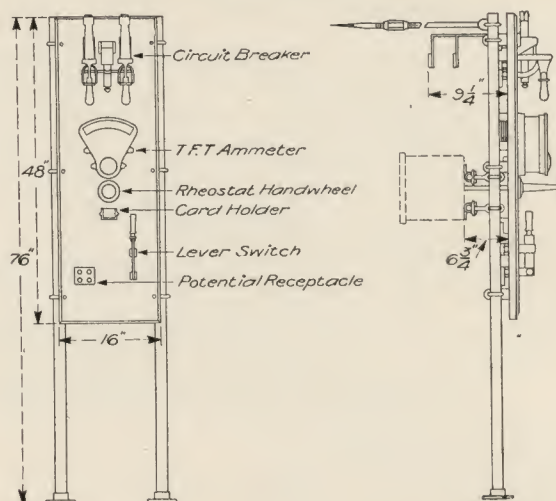
* KW. CAPACITY OF GENERATOR NOT TO EXCEED		AMP. CAPACITY			Approx. Shipping Weight (Lb.)	CAT. NO.	* KW. CAPACITY OF GENERATOR NOT TO EXCEED		AMP. CAPACITY			Approx. Shipping Weight (Lb.)	CAT. NO.
125 Volts	250 Volts	Panel	Ammeter	Circuit Breaker			125 Volts	250 Volts	Panel	Ammeter	Circuit Breaker		
5	10	50	60	50	400	49359	13	26	125	150	200	400	49362
6.5	13	65	80	100	400	49360	17	34	160	200	200	400	49363
8.5	17	80	100	100	400	49361							

Order voltmeter on swinging bracket { Cat. No. 58304, 175 volt scale.
Cat. No. 58305, 350 volt scale.

* Kw. rating based on overloads of 25 per cent. for one or two hours. For 50 per cent. guarantees divide by 1.2.

SWITCHBOARD PANELS

125 AND 250 VOLT GENERATOR PANELS WITH THOMSON FEEDER TYPE AMMETERS

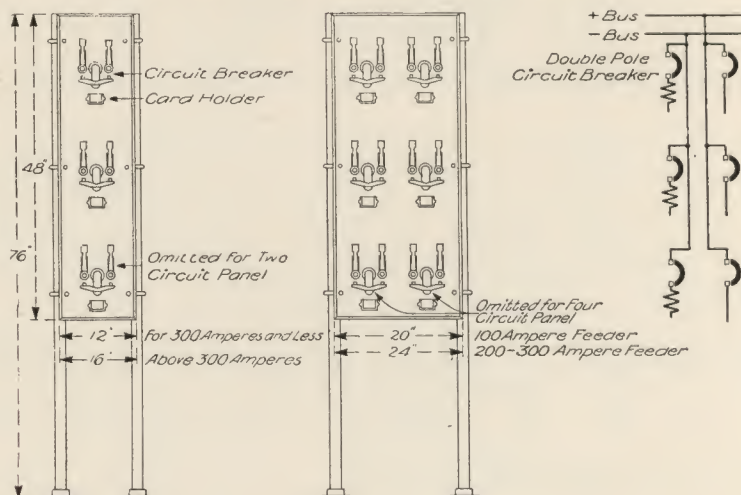


* KW. CAPACITY OF GENERATOR NOT TO EXCEED		AMP. CAPACITY			Approx. Shipping Weight (Lb.)	CAT. NO.	
125 Volts	250 Volts	Panel	Ammeter	Circuit Breaker		125 Volts	250 Volts
5	10	50	60	50	400	36590	36600
6.5	13	65	80	100	400	36591	36601
8.5	17	80	100	100	400	36592	36602
13	26	125	150	200	400	36593	36603
17	34	160	200	200	400	36594	36604
25	50	250	300	300	400	36595	36605
30	60	300	400	300	400	36596	36606
50	100	500	600	500	400	36597	36607
68	135	650	800	800	400	36598	36608
80	160	800	1000	800	400	36599	36609
100	200	1000	1200	1200	450	70915	70926
120	240	1200	1500	1200	450	70924	71178

Order voltmeter on swinging bracket { Cat. No. 58437, 175 volt scale.
Cat. No. 58438, 350 volt scale.

* Kw. ratings based on overloads of 25 per cent. for one or two hours. For 50 per cent. guarantees divide by 1.2.

125 AND 250 VOLT FEEDER PANELS

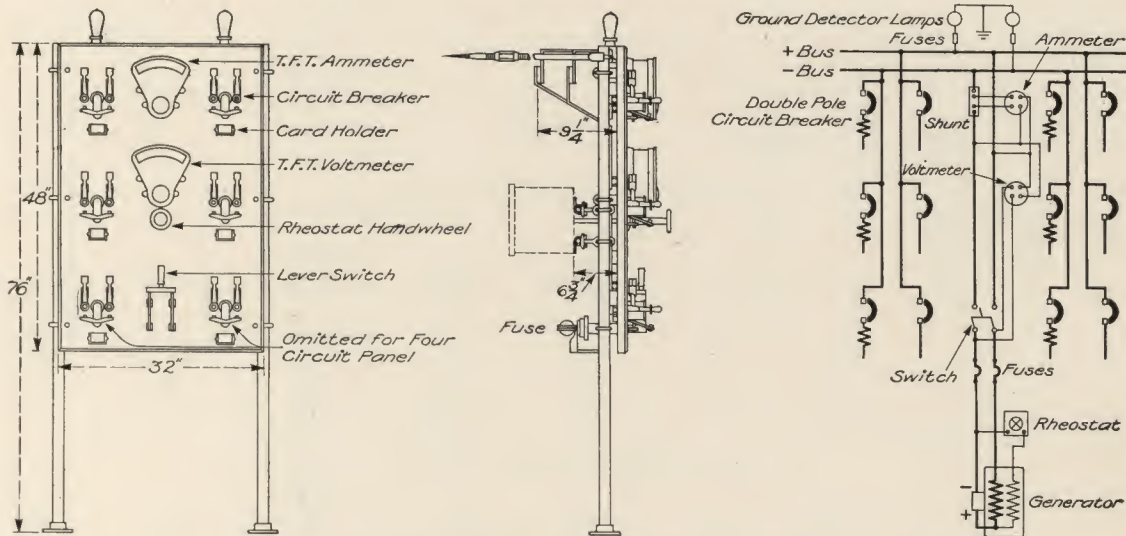


SWITCHBOARD PANELS

125 AND 250 VOLTS FEEDER PANELS (Concluded)

No. of Feeder Cir. Per Panel	Amp. Capacity of Each Feeder	Approx. Ship. Wt. Lb.	Cat. No.	No. of Feeder Cir. Per Panel	Amp. Capacity of Each Feeder	Approx. Ship. Wt. Lb.	Cat. No.	No. of Feeder Cir. Per Panel	Amp. Capacity of Each Feeder	Approx. Ship. Wt. Lb.	Cat. No.	No. of Feeder Cir. Per Panel	Amp. Capacity of Each Feeder	Approx. Ship. Wt. Lb.	Cat. No.
2	25	350	36610	3	25	350	36615	4	25	400	36620	6	25	450	36625
2	50	350	36611	3	50	350	36616	4	50	400	36621	6	50	450	36626
2	100	350	36612	3	100	350	36617	4	100	400	36622	6	100	450	36627
2	200	350	36613	3	200	400	36618	4	200	450	36623	6	200	500	36628
2	300	350	36614	3	300	400	36619	4	300	450	36624	6	300	500	36629
2	500	400	71180												
2	1-500, 1-800	400	71189												

125 AND 250 VOLT COMBINATION PANELS WITH THOMSON FEEDER TYPE INSTRUMENTS



FOUR-CIRCUIT COMBINATION PANELS

*KW. CAPACITY OF GENERATOR NOT TO EXCEED		AMP. CAPACITY				Approx. Ship. Wt. Lb.	CAT. NO.	
125 Volts	250 Volts	Panel	Ammeter	Switch	Feeder Circuit Breakers		125 Volts	250 Volts
5	10	50	60	60	4- 25	700	36630	36640
6.5	13	65	80	100	4- 25	700	36631	36641
8.5	17	80	100	100	4- 50	700	36632	36642
13	26	125	150	200	4- 50	700	36633	36643
17	34	160	200	200	4-100	700	36634	36644
25	50	250	300	300	4-100	700	36635	36645
34	68	320	400	400	4-200	750	36636	36646
50	100	500	600	600	4-200	750	36637	36647
60	120	600	800	600	4-300	750	36638	36648

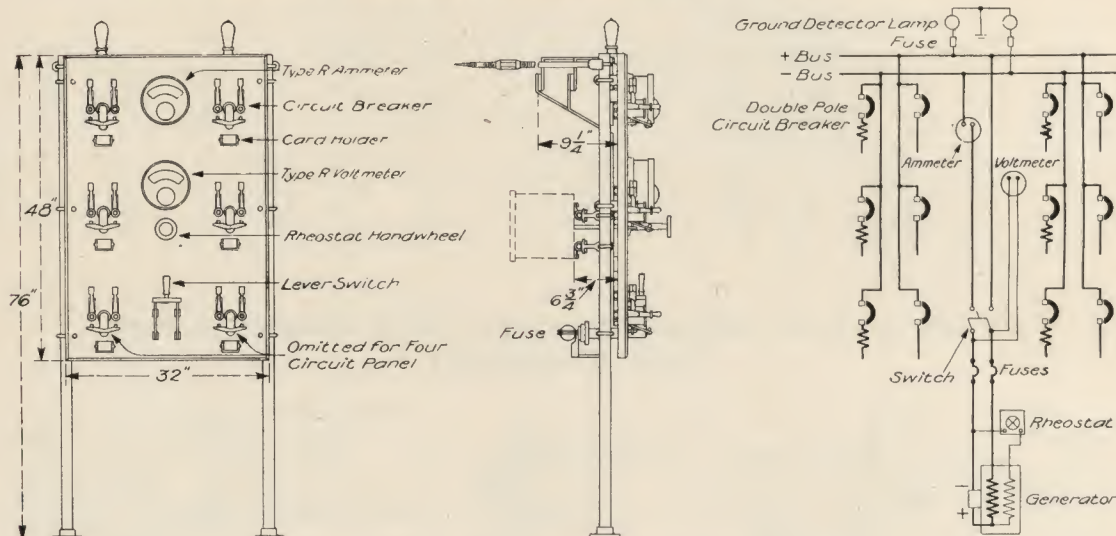
SIX-CIRCUIT COMBINATION PANELS

125 Volts	250 Volts	Panel	Ammeter	Switch	Feeder Circuit Breakers	Approx. Ship. Wt. Lb.	125 Volts	250 Volts
5	10	50	60	60	6- 15	750	36650	36660
6.5	13	65	80	100	6- 25	750	36651	36661
8.5	17	80	100	100	2- 50, 4- 25	750	36652	36662
13	26	125	150	200	2- 50, 4- 25	750	36653	36663
17	34	160	200	200	2-100, 4- 50	750	36654	36664
25	50	250	300	300	2-100, 4- 50	750	36655	36665
34	68	320	400	400	2-200, 4-100	750	36656	36666
50	100	500	600	600	2-200, 4-100	750	36657	36667
60	120	600	800	600	2-300, 4-200	800	36658	36668

* Kw. ratings based on overloads of 25 per cent. for one or two hours. For 50 per cent. guarantees divide by 1.2.

SWITCHBOARD PANELS

125 AND 250 VOLT COMBINATION PANELS WITH TYPE R INSTRUMENTS



FOUR-CIRCUIT COMBINATION PANELS

*KW. CAPACITY OF GENERATOR NOT TO EXCEED		AMP. CAPACITY				Approx. Ship. Wt. Lb.	CAT. NO.	
125 Volts	250 Volts	Panel	Ammeter	Switch	Feeder Circuit Breakers		125 Volts	250 Volts
5	10	50	60	60	4- 25	700	36670	36675
6.5	13	65	80	100	4- 25	700	36671	36676
8.5	17	80	100	100	4- 50	700	36672	36677
13	26	125	150	200	4- 50	700	36673	36678
17	34	160	200	200	4-100	700	36674	36679

SIX-CIRCUIT COMBINATION PANELS

5	10	50	60	60	6- 15	750	36680	36685
6.5	13	65	80	100	6- 25	750	36681	36686
8.5	17	80	100	100	2- 50, 4-25	750	36682	36687
13	26	125	150	200	2- 50, 4-25	750	36683	36688
17	34	160	200	200	2-100, 4-50	750	36684	36689

* Kw. ratings based on overloads of 25 per cent. for one or two hours. For 50 per cent. guarantees divide by 1.2.

DIRECT CURRENT DISTRIBUTION PANELS FOR 110 AND 220 VOLTS

FOR CRANES, HOISTS, BRIDGES, CONVEYORS, ETC.

These panels are designed especially for crane and hoist service and the sections have been named accordingly. They are suitable, however, for a wide variety of service and can easily be adapted to meet almost any conditions requiring distribution panels for either light or power.

Various equipments are provided, including switches, fuses, relays, and various forms of circuit breakers.

All sections are natural black slate.

Blue Vermont marble or black enameled slate may be substituted.

Catalogue Nos. do not include:

- Panel supports
- Bus supports
- Bus bars
- Fuses
- Pilot lamps.

Panel supports necessarily vary, depending on where and how the sections are installed. They must therefore be furnished by the customer.

Two bus supports are required for each complete panel but they are listed separately as the number of sections per panel varies considerably and also because a great many of these sections are ordered in stock quantities by different purchasers.

SWITCHBOARD PANELS

DIRECT CURRENT DISTRIBUTION PANELS FOR 110 AND 220 VOLTS (Continued)

FOR CRANES, HOISTS, BRIDGES, CONVEYORS, ETC.

If requested to do so, the General Electric Company will furnish and drill the necessary bus bars. This will involve an additional charge of five per cent. of the net price of all sections for which bus bars are furnished and full information regarding the grouping of the sections must be given with the order. Catalogue numbers all include suitable wire or cable, with terminals, for connecting the various devices to the bus bars.

Fuse sections are designed for National Electric Code Standard enclosed fuses. Adapters can be furnished to allow of the use of standard link fuses. Fuses and adapters are listed at the end of this section.

Apparatus used on distribution panels:

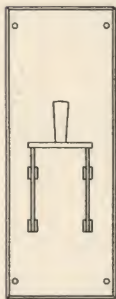
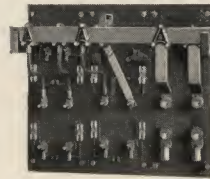
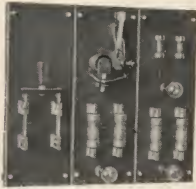
250 Volt D.P.S.T. Form D lever switches.

250 Volt S.P. fuseholders.

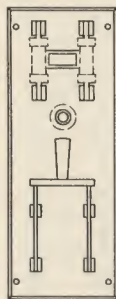
S.P. overload relays for 250 volt circuits.

250 Volt lamp receptacles.

250 Volt S.P. circuit breakers, Type C Form G for 300 amperes and less, Type C Form P above 300 amperes.



Switch



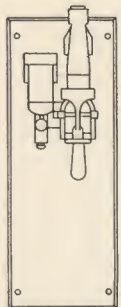
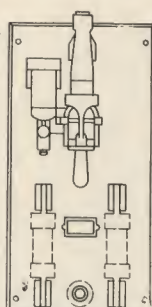
Fuse Holders

Card Holder

Lamp Receptacle

Switch

Cat. No. Fig. 1	Approx. Ship. Wt. Lb.	AMP. CAPACITY		Size of Section in Inches	Cat. No. Fig. 2	Approx. Ship. Wt. Lb.
		Switch	Fuse- holders			
71743	85	100	30	24x 9x1 1/2	71751	85
71744	85	100	60	24x 9x1 1/2	71752	85
71745	90	200	60	24x 9x1 1/2	71753	85
71746	90	200	100	24x 9x1 1/2	71754	85
71747	90	300	100	24x 9x1 1/2	71755	90
71748	90	300	200	24x 9x1 1/2	71756	90
71749	95	400	100	24x 9x1 1/2	71757	95
71750	95	400	200	24x 9x1 1/2	71758	95
		600	100	24x16x1 1/2	71759	100
		600	200	24x10x1 1/2	71760	100
		800	...	24x11x1 1/2	.....
		1000	...	24x11x1 1/2	.....
		1200	...	24x11x1 1/2	.....

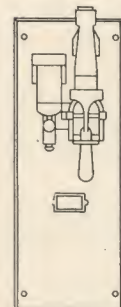
Fig. 1
Incoming Line
SectionsFig. 2
Incoming Line and
Feeder Sections{ Single Pole
Shunt Trip
Circuit Breaker{ Single Pole
Shunt Trip
Circuit Breaker

Fuse Holders

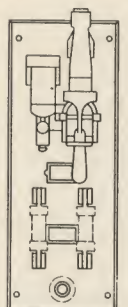
Card Holder

Lamp Receptacle

Cat. No. Fig. 3	Approx. Ship. Wt. Lb.	AMP. CAPACITY		Size of Section in Inches	Cat. No. Fig. 4	Approx. Ship. Wt. Lb.
		Circuit Breaker	Fuse- holders			
71761	85	100	60	24x 9x1 1/2	71788	85
71762	85	100	100	24x 9x1 1/2	71789	85
71763	90	200	200	24x 9x1 1/2	71790	85
71764	95	300	400	24x 9x1 1/2	71791	95
71765	100	500	600	24x10x1 1/2	71792	100
71766	110	800	...	24x12x1 1/2	71793	110
		1200	...	24x 9x1 1/2	.....

Fig. 3
Incoming Line
SectionsFig. 4
Hoist Sections{ Single Pole
Overload
Circuit Breaker

Card Holder

{ Single Pole
Overload
Circuit Breaker

Card Holder

Card Holder

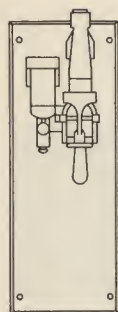
Fuse Holders

Lamp Receptacle

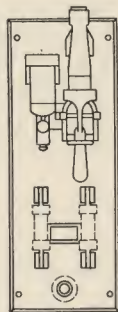
Cat. No. Fig. 5	Approx. Ship. Wt. Lb.	AMP. CAPACITY		Size of Section in Ins.	Cat. No. Fig. 6	Approx. Ship. Wt. Lb.
		Circuit Breaker	Fuse- holders			
71778	85	100	...	24x9x1 1/2	71844	85
71779	85	200	30	24x9x1 1/2	71845	85
71780	90	200	60	24x9x1 1/2	71846	85
71781	90	200	100	24x9x1 1/2	71847	90
71782	95	300	60	24x9x1 1/2	71848	90
71783	95	300	100	24x9x1 1/2	71849	95
		500	100	24x9x1 1/2	71850	95
		500	200	24x9x1 1/2	71851	100
		800	...	24x9x1 1/2	.....
		1200	...	24x9x1 1/2	.....

Fig. 5
Incoming Line
(Common Return)
Sections
or Feeder SectionsFig. 6
Incoming Line
(Common Return)
and Feeder Sections
or Feeder Sections

SWITCHBOARD PANELS

DIRECT CURRENT DISTRIBUTION PANELS FOR 110 AND 220 VOLTS (Continued)
FOR CRANES, HOISTS, BRIDGES, CONVEYORS, ETC.Fig. 7
Hoist Sections

{ Single Pole
Overload and
Shunt Trip
Circuit Breaker

Fig. 8
Hoist and Feeder
Sections

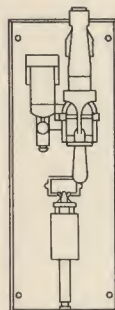
{ Single Pole
Overload and
Shunt Trip
Circuit Breaker

Fuse Holders

Card Holder

Lamp Receptacle

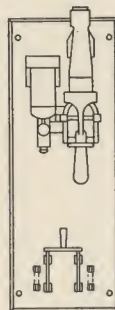
Cat. No. Fig. 7	Ap- prox. Ship. Wt. Lb.	AMP. CAPACITY		Size of Section in Inches	Cat. No. Fig. 8	Ap- prox. Ship. Wt. Lb.
		Circuit Breaker	Fuse- holders			
71784	85	200	30	24x 9x1½	71794	85
.....	.....	200	60	24x 9x1½	71795	85
.....	.....	200	100	24x 9x1½	71796	85
.....	.....	200	200	24x 9x1½	71797	85
71785	90	300	60	24x 9x1½	71798	90
.....	.....	300	100	24x 9x1½	71799	90
.....	.....	300	200	24x 9x1½	71800	90
.....	.....	300	400	24x10x1½	71801	95
71786	95	500	100	24x 9x1½	71802	95
.....	.....	500	200	24x 9x1½	71803	95
.....	.....	500	400	24x12x1½	71804	105
71787	105	800	100	{ Fig. 7-24x10x1½ Fig. 8-24x11x1½ }	71805	110
.....	.....	800	200	24x11x1½	71806	110

Fig. 9
Incoming Line and
Hoist Sections
Incoming Line and
Feeder Sections

{ Single Pole
Shunt Trip
Circuit Breaker

Card Holder

Relay

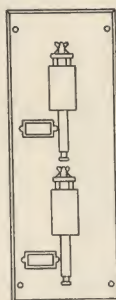
Fig. 10
Hoist and Controller
Feeder Sections

{ Single Pole
Overload and
Shunt Trip
Circuit Breaker

Switch

Fuse Holders

Cat. No. Fig. 9	Approx. Ship. Wt. Lb.	AMP. CAPACITY			Size of Section in Ins.	Cat. No. Fig. 10	Ap- prox. Ship. Wt. Lb.
		Circuit Breaker	Relay	Switch and Fuse- holders			
71768	90	100	100	..	24x 9x1½	.....	.....
71769	90	200	100	..	24x 9x1½	.....	.....
71770	95	200	200	..	24x 9x1½	.....	.....
71771	95	300	100	30	24x 9x1½	71807	85
71772	95	300	200	..	24x 9x1½	.....	.....
71773	100	300	300	..	24x 9x1½	.....	.....
71774	100	500	100	30	24x 9x1½	71808	95
71775	100	500	200	..	24x 9x1½	.....	.....
71776	105	500	300	..	24x 9x1½	.....	.....
71777	110	500	500	..	24x 9x1½	.....	.....
.....	.....	800	...	30	24x10x1½	71809	100

Fig. 11
Hoist Sections
Feeder Sections
Hoist and Feeder Sections

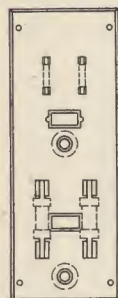
Relay

Card Holder

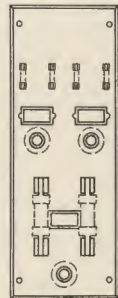
Relay

Card Holder

Cat. No. Fig. 11	Ap- prox. Ship. Wt. Lb.	Amp. Cap. of Relay	Size of Section in Ins.	Cat. No. Fig. 11	Ap- prox. Ship. Wt. Lb.	Amp. Cap. of Relay	Size of Section in Ins.
71810	80	2-100	24x9x1½	71821	85	2-300	24x9x1½
71811	80	1-100, 1- 200	24x9x1½	71822	90	1-300, 1- 500	24x9x1½
71812	80	1-100, 1- 300	24x9x1½	71823	90	1-300, 1- 800	24x9x1½
71813	85	1-100, 1- 500	24x9x1½	71824	95	1-300, 1-1200	24x9x1½
71814	90	1-100, 1- 800	24x9x1½	71825	90	2-500	24x9x1½
71815	90	1-100, 1-1200	24x9x1½	71826	95	1-500, 1- 800	24x9x1½
71816	80	2-200	24x9x1½	71827	95	1-500, 1-1200	24x9x1½
71817	85	1-200, 1- 300	24x9x1½	71828	95	2-800	24x9x1½
71818	85	1-200, 1- 500	24x9x1½	71829	100	1-800, 1-1200	24x9x1½
71819	90	1-200, 1- 800	24x9x1½	71830	105	2-1200	24x9x1½
71820	90	1-200, 1-1200	24x9x1½				

Fig. 12
Feeder Sections

Fuse Holders
Card Holder
Lamp Receptacle

Fig. 13
Feeder Sections

Fuse Holders
Card Holders
Lamp Recep-
tacles
Fuse Holders
Card Holder
Lamp Receptacle

Cat. No. Fig. 12	Ap- prox. Ship. Wt. Lb.	Amp. Cap. of Fuse- holders	Size of Section in Ins.	Cat. No. Fig. 13	Ap- prox. Ship. Wt. Lb.	Amp. Cap. of Fuse- holders	Size of Section in Ins.
71831	75	4- 30	24x9x1½	71841	75	4-30, 2- 60	24x9x1½
71832	75	4- 60	24x9x1½	71842	75	4-30, 2-100	24x9x1½
71833	75	4-100	24x9x1½	71843	75	4-30, 2-200	24x9x1½
71834	75	4-200	24x9x1½				
71835	75	2- 30, 2- 60	24x9x1½				
71836	75	2- 30, 2-100	24x9x1½				
71837	75	2- 30, 2-200	24x9x1½				
71838	75	2- 60, 2-100	24x9x1½				
71839	75	2- 60, 2-200	24x9x1½				
71840	75	2-100, 2-200	24x9x1½				

SWITCHBOARD PANELS

DIRECT CURRENT DISTRIBUTION PANELS FOR 120 AND 220 VOLTS (Concluded)

FOR CRANES, HOISTS, BRIDGES, CONVEYORS, ETC.



Bus Bar Supports

For two 1 in. x $\frac{1}{4}$ in. bus bars Cat. No. 71858
 For two $1\frac{1}{2}$ in. x $\frac{3}{16}$ in. bus bars Cat. No. 71859
 For two 2 in. x $\frac{1}{4}$ in. bus bars Cat. No. 71860
 For two 3 in. x $\frac{1}{4}$ in. bus bars Cat. No. 71861

FUSE ADAPTERS

Each S.P. fuseholder in which a link fuse is to be used should be equipped with an adapter as per the following list.

For 30 ampere fuseholder, Cat. No. 71852
 For 60 ampere fuseholder, Cat. No. 71853
 For 100 ampere fuseholder, Cat. No. 71854
 For 200 ampere fuseholder, Cat. No. 71855
 For 400 ampere fuseholder, Cat. No. 71856
 For 600 ampere fuseholder, Cat. No. 71857

FUSES

AMP. CAPACITY		CAT. NO.		AMP. CAPACITY		CAT. NO.		AMP. CAPACITY		CAT. NO.	
Fuse-holder	Fuse	Enclosed Fuse	Link Fuse	Fuse-holder	Fuse	Enclosed Fuse	Link Fuse	Fuse-holder	Fuse	Enclosed Fuse	Link Fuse
30	3	34949	.....	100	70	34966	23152	400	200	.....	48291
30	5	34950	23134	100	75	34967	23153	400	225	34983	48292
30	8	34951	.....	100	80	34968	23154	400	250	34984	48293
30	10	34952	23135	100	90	34969	23155	400	275	34985	48294
30	12	34953	.....	100	100	34970	23156	400	300	34986	48296
30	15	34954	23136	200	100	.....	48286	400	325	34987	48297
30	20	34955	23137	200	110	34972	.....	400	350	34988	48298
30	25	34956	23138	200	120	34973	.....	400	375	34989	48299
30	30	34957	23139	200	125	.....	48287	400	400	34990	48300
60	30	.....	48279	200	130	34974	.....	600	400	.....	48301
60	35	34958	48280	200	140	34975	.....	600	425	36472	48302
60	40	34959	48281	200	150	34976	48288	600	450	36473	48303
60	45	34960	48282	200	160	34977	.....	600	475	36474	48304
60	50	34961	48283	200	170	34978	.....	600	500	36475	51262
60	55	34962	48284	200	175	.....	48289	600	525	36476	.....
60	60	34963	48285	200	180	34979	.....	600	550	37754	51263
100	60	.....	23151	200	190	34980	.....	600	575	36477	.....
100	65	34965	.....	200	200	34981	48290	600	600	36478	51264

SMALL PLANT, DIRECT CURRENT, THREE-WIRE, COMBINATION, GENERATOR AND FEEDER PANELS FOR 125/250 VOLTS

76 INCHES HIGH—WITH ENCLOSED FUSES—25 TO 100 KW.

These panels are designed for the control of three-wire generators in plants containing only one generator; the main switches are double-throw to allow of taking power from an outside three-wire source in emergency. The main panels provide for the control of the generator and two feeder circuits, and four feeder circuits can be controlled by using a bottom section in conjunction with the main panel. The neutral may be either grounded or ungrounded, the panels having been designed primarily for ungrounded neutral service.

Rheostat supports are adjustable both vertically and horizontally, thus allowing for a considerable range in the dimensions of rheostats.

Suitable panel pipe supports and tie-rods are included with the main panels.

These sections are all natural black slate.

Blue Vermont marble or black enameled slate may be substituted.

EQUIPMENT OF PANELS

Main panels are each equipped with:

- 2 Ground detector lamp receptacles,
- 2 Type D-3 ammeters with shunts,
- 1 350 Volt type D-3 voltmeter,
- 1 Rheostat handwheel and brackets for mounting,
- 1 Six-point ground detector receptacle and two-point plugs,
- 1 Six-point potential receptacle and four-point plug,
- 2 T.P.S.T. form D lever switches with enclosed fuses, for feeders,
- 3 S.P.D.T. form D lever switches with enclosed fuses, for generator,

Bottom sections are each equipped with:

- 2 T.P.S.T. form D lever switches with enclosed fuses, for feeders.

RATINGS

Panels should not be used with generators of capacities exceeding those given in the kilowatt column. These kilowatt ratings are based on overloads of 25% for one or two hours and 65% momentarily. Divide by 1.2 for overloads of 50% for one or two hours and 100% momentarily.

SWITCHBOARD PANELS

SMALL PLANT, DIRECT CURRENT, THREE-WIRE, COMBINATION, GENERATOR AND FEEDER PANELS FOR 125/250 VOLTS (Continued)

76 INCHES HIGH—WITH ENCLOSED FUSES 25-100 KW.

MAIN PANELS							BOTTOM SECTIONS			
Kw. of Gen.	AMP. CAPACITY						Cat. No.	AMP. CAPACITY		Cat. No.
	Panel	Am- meters	Main Switches	Main Fuses	Feeder Switches	Feeder Fuses		Feeder Switches	Feeder Fuses	
25	125	150	200 & 60	125 & 35	100	100	73362	60	60	73369
34	160	200	200 & 60	160 & 45	200	125	73363	100	100	73370
40	200	300	200 & 60	200 & 60	200	170	73364	200	200	73371
50	250	300	400 & 100	250 & 70	200	200	73365	†400	300	73372
60	300	400	400 & 100	300 & 80	200	200	73366			
80	400	500	400 & 100	400 & 100	400	300	73367			
*100	500	600	600 & 200	500 & 140	400	400	73368			
								† Do not use with main panels of less than 250 ampere capacity.		

* Main fuses are mounted behind the panel.

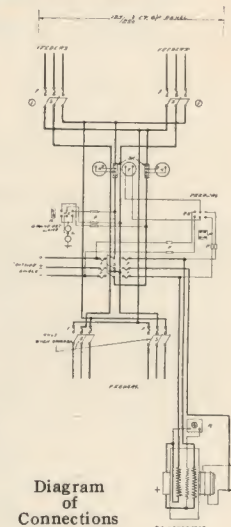


Diagram
of
Connections

STORAGE BATTERY PANELS FOR CONTROLLING BATTERIES USED IN CONNECTION WITH ELECTRICALLY OPERATED SWITCHES

These panels are designed for use in railway stations where it is necessary to install storage batteries in order to have a reliable and continuous source of direct current for operating motor or solenoid-operated oil switches or other electrically operated devices. The panels are arranged so that the batteries may be charged through a resistance from a railway bus of 550 or 600 volts. The equipment is as follows:

- 1—Ammeter (zero center),
- 1—Voltmeter—Scales 0-175 and 0-3,
- 2—4-point potential receptacles and 1 plug,
- 1—Rheostat mechanism,
- 2—Lever switches with fuses.

The potential receptacles are connected so that the voltage may be read across the whole battery or across one cell.

Type of Storage Battery	Cat. No.	Shipping Weight
PT	49044	450
E5	49045	450

AUTOMOBILE CHARGING PANEL

PRIVATE CHARGING PANELS

The method of controlling, measuring and sometimes converting the electric power for charging electric vehicles, depends largely upon the electrical supply available. This supply may be alternating current with a potential of 110, 220 or 440 volts, or direct current with a potential of 110, 230 or 550 volts. On account of these varying local conditions, several types of panels are necessary and may be conveniently classified under the following headings:

FOR CHARGING FROM CONTINUOUS CURRENT CIRCUITS

GARAGE PANELS for public charging stations where 110 volts continuous current is available (see pages 137, 138).

PRIVATE CHARGING PANELS for charging one or two vehicles from 110 volt continuous current circuit (see page 137).

MOTOR-GENERATOR PANELS for charging one vehicle from 230 or 550 volt continuous current circuits (see page 139).

FOR CHARGING FROM ALTERNATING CURRENT CIRCUITS

MOTOR-GENERATOR PANELS for controlling 110 volt direct current generators operated by induction motors. For charging one vehicle (see pages 138, 139).

MERCURY ARC RECTIFIER PANELS for converting alternating current into direct current and measuring and controlling it. For charging one vehicle (see page 72).

SWITCHBOARD PANELS

PRIVATE CHARGING PANELS (Concluded)

FOR USE IN CONNECTION WITH SERIES RHEOSTATS

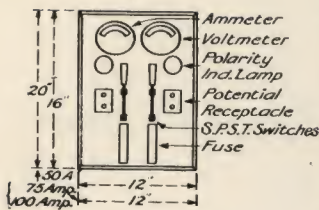


Fig. 1

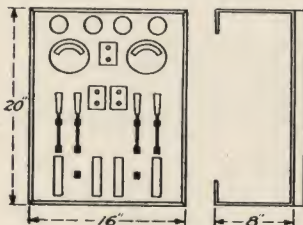
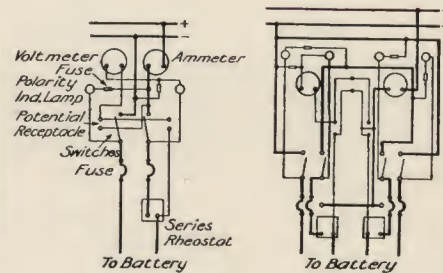


Fig. 2



No. of Circuits	Fig. No.	Am. Scale	Approx. Ship. Wt. Lb. (Boxed)	Cat. No.	No. of Circuits	Fig. No.	Am. Scale	Approx. Ship. Wt. Lb. (Boxed)	Cat. No.
1	1	60	130	32960	1	1	100	130	32962
1	1	80	130	32961	2	2	60	160	32963

For series charging rheostat see the following table. Panels are made of natural black slate.

SERIES CHARGING RHEOSTATS FOR CIRCUITS UP TO 125 VOLTS MAXIMUM



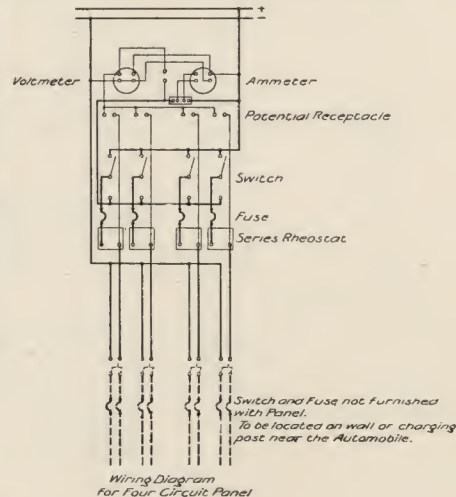
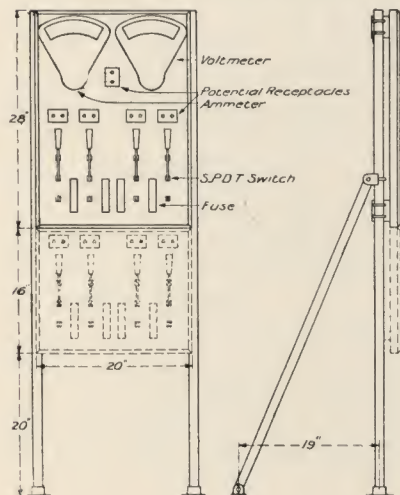
Type B Charging Rheostat

Cat. No.	Type of Cells	No. of Cells	Ohms. Total	CHARGING AMPS.		Divisions of Resistance	Approx. Shipping Wt. Lb.
				Begin	Finish		
56463	Edison	60-66	.325	130	40	10	178
56464	Lead	40-44	1.3	65	10	10	180
56465	Lead	24-36	5.4	32.5	10	15	254
56466	Lead	12-24	8.4	32.5	10	19	290

These rheostats are 6½ ins. wide and 16 ins. high. The length varies with the capacity.

GARAGE PANELS

FOR CONTROLLING ONLY THE POSITIVE SIDE OF THE CIRCUIT



SWITCHBOARD PANELS

GARAGE PANELS (Concluded)

FOR CONTROLLING ONLY THE POSITIVE SIDE OF THE CIRCUIT

No. of Circuits		Ammeter Scale	Approx. Ship. Wt. Lb.	Cat. No.	No. of Circuits		Approx. Ship. Wt. Lb.	Cat. No.
4	Panel	100	500	32964	4	Sub-base	150	32965

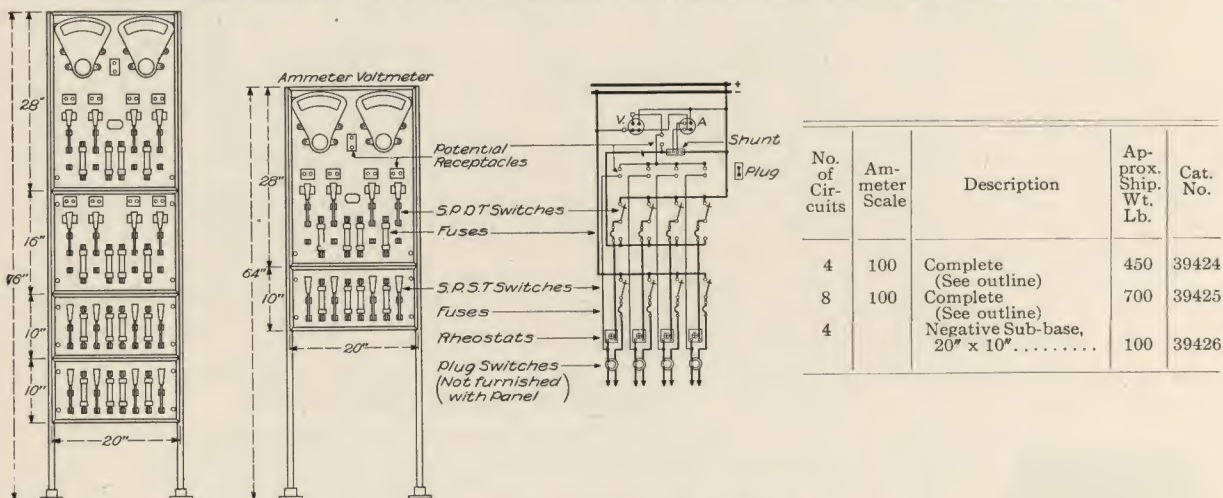
For 4-circuit panel, order Cat. No. 32964.

For 8-circuit panel, order one of Cat. No. 32964 and one of Cat. No. 32965.

For 12-circuit panel, order one of Cat. No. 32964 and two of Cat. No. 32965.

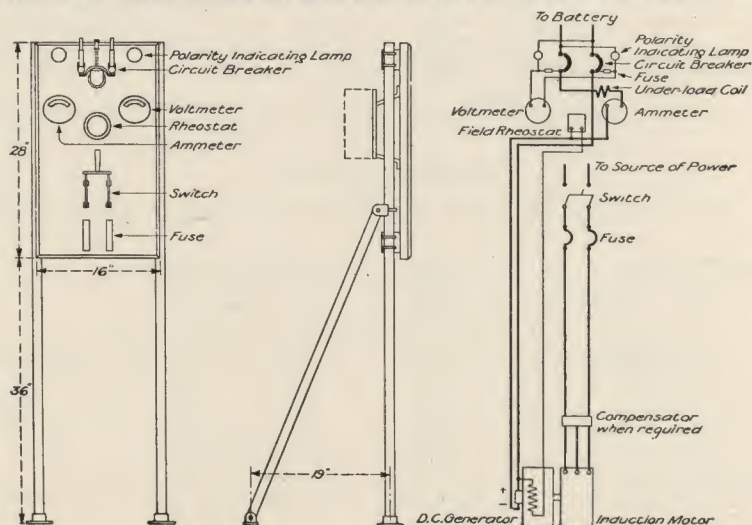
Twelve-circuit panels are mounted on pipe supports 76 ins. high.

FOR CONTROLLING BOTH THE POSITIVE AND THE NEGATIVE SIDES OF THE CIRCUIT



MOTOR-GENERATOR PANELS

FOR CONTROLLING SINGLE-PHASE MOTORS AND 110 VOLT CURRENT GENERATORS



110 VOLT MOTORS

220 VOLT MOTORS

H.P. of Motor	Kw. Cap. of Generator	Am. Scale	Approx. Ship. Wt. Lb.	Cat. No.	H.P. of Motor	Kw. Cap. of Generator	Am. Scale	Approx. Ship. Wt. Lb.	Cat. No.
1	.5	20	425	32974	1	.5	20	425	32978
2	1.25	30	425	32975	2	1.25	30	425	32979
3	1.75	40	425	32976	3	1.75	40	425	32980
5	3.25	60	425	32977	5	3.25	60	425	32981

No series rheostats are necessary with motor-generator panels.

SWITCHBOARD PANELS**MOTOR-GENERATOR PANELS (Concluded)****FOR CONTROLLING THREE-PHASE MOTORS AND 110 VOLT DIRECT CURRENT GENERATORS****110 VOLT MOTORS****220 VOLT MOTORS**

H.P. of Motor	Kw. Cap. of Generator	Am. Scale	Approx. Ship. Wt. Lb. (Boxed)	Cat. No.	H.P. of Motor	Kw. Cap. of Generator	Am. Scale	Approx. Ship. Wt. Lb. (Boxed)	Cat. No.
2	1	30	425	32982	2	1	30	425	32987
3	1.75	40	425	32983	3	1.75	40	425	32988
5	3.25	60	425	32984	5	3.25	60	425	32989
7.5	4.25	80	425	32985	7.5	4.25	80	425	32990
10	6	100	425	32986	10	6	100	425	32991

440 VOLT MOTORS

2	1	30	425	32992	7.5	4.25	80	425	32995
3	1.75	40	425	32993	10	6	100	425	32996
5	3.25	60	425	32994					

Panels are similar to diagram except that main motor switch will be triple-pole instead of double-pole.

FOR CONTROLLING DIRECT CURRENT MOTORS AND 110 VOLT DIRECT CURRENT GENERATORS**230 VOLT MOTORS****500 VOLT MOTORS**

H.P. of Motor	Kw. Cap. of Motor	Am. Scale	Approx. Ship. Wt. Lb.	Cat. No.	H.P. of Motor	Kw. Cap. of Motor	Am. Scale	Approx. Ship. Wt. Lb.	Cat. No.
3	1.75	40	500	32966	3	1.75	40	500	32970
5	3.25	60	500	32967	5	3.25	60	500	32971
7.5	4.5	80	500	32968	7.5	4.5	80	500	32972
10	6.25	100	500	32969	10	6.25	100	500	32973

The above panels are similar to the illustration with the addition of an automatic motor-starting rheostat on sub-base. No series rheostats are necessary with motor-generator panels.

TWIN CHARGING CABLES

These conductors should be ordered by specification number, giving the ampere capacity and number of feet required.

25 AMPERE TWIN CABLE

Spec. No. 1942 "A" 25 amp. cable, each conductor consisting of 49 No. 25 B.&S. gauge (equal to No. 8 B.&S. gauge) insulated with $\frac{3}{64}$ " red core rubber weatherproof braid. Two such conductors are laid flat and finished with a weatherproof double braid.

50 AMPERE TWIN CABLE

Spec. No. 1942 "B." 50 amp. cable, each conductor consisting of 49 .024" copper wires (equal to No. 6 B.&S. gauge) insulated with $\frac{1}{16}$ " red core rubber weatherproof braid. Two such cables are laid flat and finished with a weatherproof double braid.

100 AMPERE TWIN CABLE

Spec. No. 1942 "C." 100 amp. cable, each conductor consisting of 49 .041" tinned copper wires (equal to No. 1 B.&S. gauge) insulated with $\frac{5}{64}$ " red core weatherproof braid. Two such conductors are laid flat and finished with a weatherproof double braid.

125 AMPERE TWIN CABLE

Spec. No. 1942 "D." 125 amp. cable, each conductor consisting of 61 .041" copper wires (equal to No. 0 B.&S. gauge) insulated with $\frac{5}{64}$ " red core rubber weatherproof braid. Two such conductors are laid flat and finished with a weatherproof double braid.

For quotations and further information, apply to nearest office.

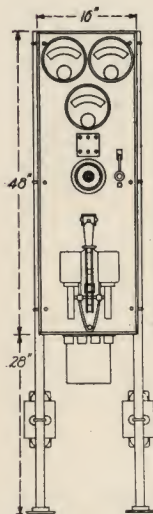
SWITCHBOARD PANELS

DOUBLE- AND TRIPLE-POLE LEVER SWITCHES MOUNTED ON BASES WITH CONNECTIONS FOR ENCLOSED FUSES

Type L, Form D 12 Switches with Clips for Enclosed Fuses	ENCLOSED FUSES FOR USE WITH SWITCHES		Type L, Form D 12 Switches with Clips for Enclosed Fuses	ENCLOSED FUSES FOR USE WITH SWITCHES	
	Amp. Capacity	Cat. No.		Amp. Capacity	Cat. No.
30 Amp. D.P. Switch, Cat. No. 41793 30 Amp. T.P. Switch, Cat. No. 41794	10	34952	200 Amp. D.P. Switch, Cat. No. 41805 200 Amp. T.P. Switch, Cat. No. 41806	110	34972
	15	34954		130	34974
	20	34955		150	34976
	25	34956		180	34979
	30	34957		200	34981
60 Amp. D.P. Switch, Cat. No. 41797 60 Amp. T.P. Switch, Cat. No. 41798	35	34958	400 Amp. D.P. Switch, Cat. No. 41809 400 Amp. T.P. Switch, Cat. No. 41810	225	34983
	40	34959		250	34984
	50	34961		275	34985
	60	34963		300	34986
100 Amp. D.P. Switch, Cat. No. 41801 100 Amp. T.P. Switch, Cat. No. 41802	70	34966		325	34987
	80	34968		350	34988
	90	34969		375	34989
	100	34970		400	34990

SMALL PLANT ALTERNATING CURRENT PANELS, TWO- AND THREE-PHASE 1150 AND 2300 VOLTS, 60 CYCLES, 76 IN. HIGH

FOR CONTROLLING EXCITERS, GENERATORS AND FEEDERS



Two-phase Combination Panel with One Feeder Switch and Concentric Rheostat Mechanism

These panels are designed for service in small or isolated plants containing but one exciter and one generator. No provision is made for operating generators in parallel but the instrument equipment is suitable for either balanced or unbalanced loads.

Three-phase panels contain triple pole feeder switches, each of which can be used to control either one three-phase or two single-phase feeder circuits. On panels containing only one feeder switch, the capacity of the feeder is equal to that of the generator. On panels containing two feeder switches each feeder has a capacity slightly in excess of half the generator capacity. If desired, these capacities can be modified without additional charge, maximum allowable capacity being 150 amperes.

Unless otherwise ordered, apparatus will be calibrated for 60 cycles; but panels can be furnished for frequencies up to 125 cycles without additional charge. For frequencies less than 60 and not below 25 cycles, an additional charge will be made.

These sections are all BLUE VERMONT MARBLE.

THREE-PHASE PANELS

Three-phase panels are each equipped with:

- 3 Type R ammeters.
- 1 175 Volt Type R voltmeter.
- 1 Eight-point potential receptacle and four-point plug.
- 1 S.P.S.T. 100 Ampere field switch with discharge resistance clip.
- *1 Concentric mechanism for field rheostats and brackets for mounting.
- 2 Potential transformers.
- 1 or 2 T.P.S.T. 200 Ampere Form K-3 series trip automatic oil switches.

*Panels with mechanisms for exciter rheostats only are also listed.

TWO-PHASE PANELS

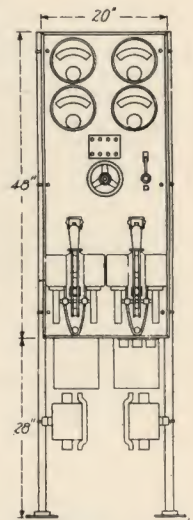
Two-phase panels are each equipped with:

- 2 Type R ammeters.
- 1 175 Volt Type R voltmeter.
- 1 Six-point potential receptacle and four-point plug.
- 1 S.P.S.T. 100 Ampere field switch with discharge resistance clip.
- *1 Concentric mechanism for field rheostats and brackets for mounting.
- 2 Potential transformers.
- 1 or 2—4 P.S.T. 200 Ampere Form K-3 series trip automatic oil switches.

* Panels with mechanisms for exciter rheostats only are also listed.

RATINGS

Panels should not be used with machines of capacities exceeding those given in the kilowatt column. These kilowatt ratings are based on overloads of 25% for one or two hours and 65% momentarily. Divide by 1.2 for overloads of 50% for one or two hours and 100% momentarily.



Three-phase Combination Panel with Two Feeder Switches and Single Rheostat Mechanism

SWITCHBOARD PANELS

SMALL PLANT A.C. PANELS FOR CONTROLLING GENERATORS, EXCITERS AND FEEDERS

THREE-PHASE PANELS

*WITH ONE OIL SWITCH			*WITH TWO OIL SWITCHES			KW. CAP. GENERATOR		AMP. CAPACITY			
CAT. NO.			CAT. NO.			1150 Volts	2300 Volts	Panel	EACH FEEDER		Ammeters
With Ex-citer Rheo. Mech. only	With both Gen. and Exciter Rheo. Mech.	Approx. Ship. Wt. Lb.	With Ex-citer Rheo. Mech. only	With both Gen. and Exciter Rheo. Mech.	Approx. Ship. Wt. Lb.				Panel with One Switch	Panel with Two Switches	
71574	71566	700	71590	71582	875	20	40	12	12	8	15
71575	71567	700	71591	71583	875	26.5	53	16	16	10	20
71576	71568	700	71592	71584	875	40	80	25	25	15	30
71577	71569	700	71593	71585	875	53	105	30	30	20	40
71578	71570	700	71594	71586	875	80	160	50	50	30	60
71579	71571	700	71595	71587	875	105	210	65	65	40	80
71580	71572	700	71596	71588	875	130	265	80	80	50	100
71581	71573	700	71597	71589	875	200	400	125	125	80	150
71981	71980	700	71983	71982	875	265	530	160	160	100	200

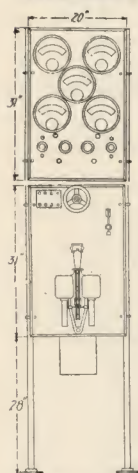
* Panels with one oil switch are 16 in. wide. Panels with two oil switches are 20 in. wide.

TWO-PHASE PANELS

* WITH ONE OIL SWITCH			*WITH TWO OIL SWITCHES			KW. CAP. GENERATOR		AMP. CAPACITY			
CAT. NO.			CAT. NO.			1150 Volts	2300 Volts	Panel	Panel with One Switch	Panel with Two Switches	Ammeters
With Ex-citer Rheo. Mech. only	With both Gen. and Exciter Rheo. Mech.	Approx. Ship. Wt. Lb.	With Ex-citer Rheo. Mech. only	With both Gen. and Exciter Rheo. Mech.	Approx. Ship. Wt. Lb.						
71606	71598	725	71622	71614	900	22.5	45	12	12	8	15
71607	71599	725	71623	71615	900	30	60	16	16	10	20
71608	71600	725	71624	71616	900	45	90	25	25	15	30
71609	71601	725	71625	71617	900	60	120	30	30	20	40
71610	71602	725	71626	71618	900	90	180	50	50	30	60
71611	71603	725	71627	71619	900	120	240	65	65	40	80
71612	71604	725	71628	71620	900	150	305	80	80	50	100
71613	71605	725	71629	71621	900	230	460	125	125	80	150
71985	71984	725	71987	71986	900	305	610	160	160	100	200

* Panels with one oil switch are 16 in. wide. Panels with two oil switches are 20 in. wide.

SMALL PLANT ALTERNATING CURRENT PANELS—TWO- AND THREE-PHASE 2300 VOLTS—60 CYCLES—90 IN. HIGH FOR CONTROLLING EXCITERS, GENERATORS, FEEDERS AND CONSTANT CURRENT TRANSFORMERS



Three-Phase Combination Panel with One Feeder Switch and Single Rheostat Mechanism

These panels are designed for service in small or isolated plants containing but one exciter and generator. No provision is made for operating generators in parallel but the instrument equipment is suitable for either balanced or unbalanced loads.

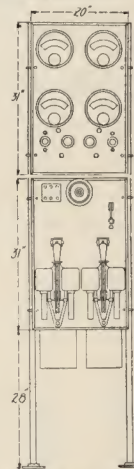
Three-phase panels contain triple-pole feeder switches, each of which can be used to control either one three-phase or two single-phase feeder circuits. On panels containing only one feeder switch, the capacity of the feeder is equal to that of the generator. On panels containing two feeder switches each feeder has a capacity slightly in excess of half the generator capacity. If desired, these capacities can be modified without additional charge, maximum allowable capacity being 150 Amperes.

The arc circuits are suitable for controlling either 25- or 35-light constant current transformers. By increasing the capacity of the fuses the 35-light panel can be used to control a 50-light transformer with single-circuit secondary.

Panels may be used to control 1150-volt generators by substituting suitable capacity fuses in the constant current transformer circuit. As the ampere rating of the panel remains the same, the kilowatt rating will be decreased one-half when 1150-volt generators are used.

Unless otherwise ordered, apparatus will be calibrated for 60 cycles, but panels can be furnished for frequencies up to 125 cycles without additional charge. Constant current transformers are occasionally built for 40 cycles and arrangements have therefore been made to adapt these panels for their control. For frequencies less than 60 and not below 25 cycles, an additional charge will be made.

These sections are all BLUE VERMONT MARBLE.



Two-Phase Combination Panel with two Feeder Switches and Concentric Rheostat Mechanism

SWITCHBOARD PANELS

SMALL PLANT ALTERNATING CURRENT PANELS (Continued)—TWO- AND THREE-PHASE 2300 VOLTS—60 CYCLES—90 IN. HIGH

FOR CONTROLLING EXCITERS, GENERATORS, FEEDERS AND CONSTANT CURRENT TRANSFORMERS

THREE-PHASE PANELS

Three-phase panels are each equipped with

For Exciter and Generator	3	Type R ammeters
	1	175 Volt type R voltmeter
	1	Eight-point potential receptacle and four-point plug
	1	S.P.S.T. 100 Ampere field switch with discharge resistance clip
	†1	Concentric mechanism for field rheostats and brackets for mounting
For Arc Circuit	2	Potential transformers.
	1	10 Ampere type R ammeter with movable index
	2	S.P. open circuiting plug switches with plugs
	1	D.P. primary plug switch with fuses and plugs
For Feeders	*1	Current transformer.
	1 or 2	T.P.S.T. 200 Ampere form K-3 series trip automatic oil switches.

† Panels with mechanisms for exciter rheostats only are also listed.

* Omitted from 25-light panel.

TWO-PHASE PANELS

Two-phase panels are each equipped with

For Exciter and Generator	2	Type R ammeters
	1	175 Volt type R voltmeter
	1	Six-point potential receptacle and four-point plug
	1	S.P.S.T. 100 Ampere field switch with discharge resistance clip
	†1	Concentric mechanism for field rheostats and brackets for mounting
For Arc Circuit	2	Potential transformers.
	1	10 ampere type R Ammeter with movable index
	2	S.P. open circuiting plug switches with plugs
	1	D.P. primary plug switch with fuses and plugs
For Feeders	*1	Current transformer.
	1 or 2—4	P.S.T. 200 Ampere form K-3 series trip automatic oil switches

† Panels with mechanisms for exciter rheostats only are also listed.

* Omitted from 25-light panel.

BOTTOM SECTIONS

These sections are listed without bottom sections but blank section Catalogue No. 71354 may be added, if desired.

RATINGS

Panels should not be used with machines of capacities exceeding those given in the kilowatt column. These kilowatt ratings are based on overloads of 25% for one or two hours and 65% momentarily. Divide by 1.2 for overloads of 50% for one or two hours and 100% momentarily.

SMALL PLANT A.C. PANELS FOR CONTROLLING GENERATORS, EXCITERS, FEEDERS AND CONSTANT CURRENT TRANSFORMERS

THREE-PHASE PANELS

TOP SECTION				MIDDLE SECTION										
25 LIGHTS		35 LIGHTS		*WITH ONE OIL SWITCH			*WITH TWO OIL SWITCHES			Kw. Cap. of Gen.	AMP. CAPACITY			
Cat. No.	Approx. Ship. Wt. Lb.	Cat. No.	Approx. Ship. Wt. Lb.	CAT. NO.		Approx. Ship. Wt. Lb.	CAT. NO.		Gen.		EACH FEEDER		Main Ammeter	
				With Exciter Rheo. Mech. Only	With Both Gen. and Exciter Rheo. Mech.		With Exciter Rheo. Mech. Only	With Both Gen. and Exciter Rheo. Mech.			Panel With One Oil Switch	Panel With Two Oil Switches		
71630	450	71638	500	71678	71662	475	71686	71670	625	40	12	12	8	15
71631	450	71639	500	71679	71663	475	71687	71671	625	53	16	16	10	20
71632	450	71640	500	71680	71664	475	71688	71672	625	80	25	25	15	30
71633	450	71641	500	71681	71665	475	71689	71673	625	105	30	30	20	40
71634	450	71642	500	71682	71666	475	71690	71674	625	160	50	50	30	60
71635	450	71643	500	71683	71667	475	71691	71675	625	210	65	65	40	80
71636	450	71644	500	71684	71668	475	71692	71676	625	265	80	80	50	100
71637	450	71645	500	71685	71669	475	71693	71677	625	400	125	125	80	150
71988	450	71989	500	71994	71992	475	71995	71993	625	530	160	160	100	200

* Panels with one oil switch or with two oil switches are 20 in. wide.

SWITCHBOARD PANELS

SMALL PLANT A.C. PANELS FOR CONTROLLING GENERATORS, EXCITERS, FEEDERS, AND CONSTANT CURRENT TRANSFORMERS (Concluded)

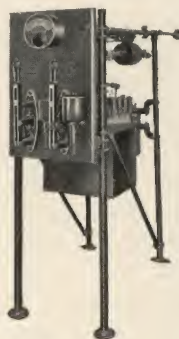
TWO-PHASE PANELS

TOP SECTION				MIDDLE SECTION										
25 LIGHTS		35 LIGHTS		*WITH ONE OIL SWITCH			*WITH TWO OIL SWITCHES			Kw. Cap. of Gen.	AMP. CAPACITY			Main Ammeter
Cat. No.	Approx. Ship. Wt. Lb.	Cat. No.	Approx. Ship. Wt. Lb.	CAT. NO.			CAT. NO.		Approx. Ship. Wt. Lb.		Gen.	EACH FEEDER		
				With Exciter Rheo. Mech. Only	With Both Gen. and Exciter Rheo. Mech.	Approx. Ship. Wt. Lb.	With Exciter Rheo. Mech. Only	With Both Gen. and Exciter Rheo. Mech.				Panel With One Oil Switch	Panel With Two Oil Switches	
71646	425	71654	475	71710	71694	500	71718	71702	650	45	12	12	8	15
71647	425	71655	475	71711	71695	500	71719	71703	650	60	16	16	10	20
71648	425	71656	475	71712	71696	500	71720	71704	650	90	25	25	15	30
71649	425	71657	475	71713	71697	500	71721	71705	650	120	30	30	20	40
71650	425	71658	475	71714	71698	500	71722	71706	650	180	50	50	30	60
71651	425	71659	475	71715	71699	500	71723	71707	650	240	65	65	40	80
71652	425	71660	475	71716	71700	500	71724	71708	650	305	80	80	50	100
71653	425	71661	475	71717	71701	500	71725	71709	650	460	125	125	80	150
71990	425	71991	475	71998	71996	500	71999	71997	650	610	160	160	100	200

* Panels with one oil switch or with two oil switches are 20 in. wide.

THREE-PHASE INDUCTION MOTOR PANELS—220, 440, 550 AND 2080 VOLTS 60 CYCLES—64 AND 76 INCHES HIGH FOR CONTROLLING FORMS K, L, AND LM MOTORS

These panels are designed for the control of the various General Electric Company motors referred to above and are suitable for mounting near the motors controlled. It is not intended that these panels shall be assembled in a switchboard.



Unless otherwise ordered, apparatus will be calibrated for 60 cycles. All these panels can be furnished for any frequency from 25 to 125 cycles without additional charge except the 2080 volt panels with low voltage release for which an additional charge will be made when furnished for frequencies less than 60 cycles. 2080 volt panels can be used to control 1040 volt motors if desired, the horse-power ratings being correspondingly reduced.

In many installations, a low voltage release feature is desirable and panels are therefore listed both with and without this attachment. On the 2080 volt panels, 110 volt coils operated by potential transformers are used but for the other three voltages an interchangeable coil designed for direct connection to the circuit is furnished.

Ammeters on panels not exceeding 160 amperes capacity, are primary; above this limit secondary ammeters are used. Insulating bushings for the ammeter studs are furnished on 2080 volt panels with primary instruments, because slate panels are used.

Main oil switches are all automatic, series trip being used for 300 amperes and less, and transformer trip above 300 amperes. All starting switches are non-automatic. Switches of 500 amperes capacity and less are Type F, Form K 3; above this limit Type F, Form K 2 switches are used.

These panels are all NATURAL BLACK SLATE.

Blue Vermont Marble or Black Enameled Slate may be substituted.

PANELS FOR FORM K MOTORS

These panels are each equipped with

- 1 Type R ammeter
- Mounting for starting compensator (in small capacities only)
- *1 T.P.S.T. Form K 3 automatic oil switch
- 1 Low voltage release (optional)
- †1 or 2 Current transformers
- 1 Potential transformer (for 2080 volt panels with low voltage release).

* Used when starting compensators are "self-contained." When no switches are included with the compensators, either (a) or (b) combination is furnished, depending on the ampere capacity.

- (a) 1 T.P.D.T. Form K 3 switch (automatic on one side) and 1 T.P.S.T. Form K 3 switch (non-automatic), with "tandem" mechanism.
- (b) 1 T.P.S.T. Form K 2 switch (automatic) and 2 T.P.S.T. Form K 3 switches (non-automatic), with "tandem" mechanism.

All "magnetizing" switches are of 200 amperes capacity. Up to and including 500 amperes capacity, "main" switches in "tandem" combinations are double throw. Above this capacity, separate "starting" switches are used, capacity being 200 amperes for the 650 and 800 ampere panels and 300 amperes for the 1000 ampere panels. The use of small capacity "magnetizing" and "starting" switches is allowable as they are in service for not more than a minute at a time.

† One current transformer is furnished with 200, 250 and 300 ampere panels; above this limit, two transformers are provided. No current transformers are necessary for panels of less than 200 amperes capacity.

SWITCHBOARD PANELS

THREE-PHASE INDUCTION MOTOR PANELS—220, 440, 550, AND 2080 VOLTS 60 CYCLES—64 AND 76 INCHES HIGH (Continued)

FOR CONTROLLING FORMS K, L, AND LM MOTORS

Starting compensators are mounted on the panel pipes in capacities up to and including those in the following list. No provision is made for mounting larger compensators as they are suitable for mounting directly on the floor.

220 volts, 110 horse-power, below 60 cycles
220 volts, 125 horse-power, 60–125 cycles
440 volts, 200 horse-power, 60–125 cycles
550 volts, 250 horse-power, 60–125 cycles
2080 volts, 200 horse-power, 60–125 cycles

Starting compensators are "self-contained" up to and including the following capacities:

220 volts, 125 horse-power, 25–125 cycles
440 volts, 300 horse-power, 25–125 cycles
550 volts, 300 horse-power, 25–125 cycles
2080 volts, 450 horse-power, 25–125 cycles

PANELS FOR FORM L MOTORS

These panels are each equipped with

- 1 Type R ammeter
- 1 T.P.S.T. Form K 3 automatic oil switch
- 1 Low voltage release (optional)
- *1 or 2 Current transformers
- 1 Potential transformer (for 2080 volt panels with low voltage release).

* One current transformer is furnished with 200, 250 and 300 ampere panels; above this limit, two transformers are provided. No current transformers are necessary for panels of less than 200 amperes capacity.

PANELS FOR FORM LM MOTORS

These panels are each equipped with

- 1 Type R ammeter
- Mounting for controller
- 1 T.P.S.T. form K 2 or K 3 automatic oil switch
- 1 Interlock for oil switch and controller
- 1 Low voltage release (optional)
- †1 or 2 Current transformers
- 1 Potential transformer (for 2080 volt panels with low voltage release).

† One current transformer is furnished with 200, 250 and 300 ampere panels; above this limit, two transformers are provided. No current transformers are necessary for panels of less than 200 amperes capacity.

T 20 controllers are used for panels up to and including 600 h.p. capacity; above this limit T 11 controllers are used. The interlock prevents the closing of the oil switch except when the controller is in the "off" position.

RATINGS

Panels should not be used with machines of capacities exceeding those given in the h.p. column. All h.p. ratings in the following tables are based on overloads of 25 per cent. for one or two hours and 65 per cent. momentarily, 90 per cent. efficiency and a power factor of 90 per cent. Divide by 1.2 for overloads of 50 per cent. for one or two hours and 100 per cent. momentarily.

Varying conditions may make it advisable to modify these ratings in certain instances.

RUPTURING CAPACITY OF OIL SWITCHES

The main automatic oil switches used on standard induction motor panels are capable of opening heavy overloads or short circuits on a system where the electrical power (normal rating) available in the circuit does not exceed the kilowatt ratings given below.

Switch	Voltage of Circuit	Rupturing Capacity in Kw.	Switch	Voltage of Circuit	Rupturing Capacity in Kw.	Switch	Voltage of Circuit	Rupturing Capacity in Kw.
200 Ampere K-3 200 Ampere K-3	1200 or less 2300	2350 2150	300-500 Ampere K-3 300-500 Ampere K-3	1200 or less 2300	2500 2350	800-1000 Ampere K-2	2300 or less	3100

SWITCHBOARD PANELS

THREE-PHASE INDUCTION MOTOR PANELS—220, 440, 550 AND 2080 VOLTS

60 CYCLES—64 AND 76 INCHES HIGH

FORM K INDUCTION MOTOR PANELS

220 VOLTS

H.P. of Motor	Frequency	AMP. CAPACITY				Compen- sator Mounting	Size of Panel in Ins.	CAT. NO.		Ship. Wt.
		Panel	Ammeter	Main Switch	Current Trans.			With Low Voltage	Without Low Voltage	
22	25-125	65	80	200	None	With	28x20x1½	71903	71868	450
27.5	25-125	80	100	200	None	With	28x20x1½	71904	71869	450
40	25-125	125	150	200	None	With	28x20x1½	71905	71870	450
55	25-125	160	200	200	None	With	28x20x1½	71906	71871	450
65	25-125	200	250	200	300	With	28x20x1½	71907	71872	500
80	25-125	250	300	300	300	With	31x20x1½	71908	71873	575
100	25-125	300	400	300	400	With	31x20x1½	71909	71874	575
110	25-55	400	500	500	600	With	31x20x1½	71910	71875	600
125	60-125									
*125	25-55	400	500	500	600	Without	31x20x1½	71921	71889	600
†135	25-125	400	500	500	600	Without	31x20x1½	71923	71895	975
165	25-125	500	600	500	600	Without	31x20x1½	71924	71896	975
220	25-125	650	800	800	800	Without	32x28x2	71925	71897	1325
265	25-125	800	1000	800	1000	Without	32x28x2	71926	71898	1325
330	25-125	1000	1200	1000	1500	Without	32x28x2	71927	71899	1475

440 VOLTS

22	25-55	30	40	200	None	Without	28x20x1½	71912	71880	450
22	60-125	30	40	200	None	With	28x20x1½	71901	71866	450
33	25-55	50	60	200	None	Without	28x20x1½	71913	71881	450
33	60-125	50	60	200	None	With	28x20x1½	71902	71867	450
44	25-55	65	80	200	None	Without	28x20x1½	71914	71882	450
44	60-125	65	80	200	None	With	28x20x1½	71903	71868	450
55	25-55	80	100	200	None	Without	28x20x1½	71915	71883	450
55	60-125	80	100	200	None	With	28x20x1½	71904	71869	450
80	25-55	125	150	200	None	Without	28x20x1½	71916	71884	450
80	60-125	125	150	200	None	With	28x20x1½	71905	71870	450
110	25-55	160	200	200	None	Without	28x20x1½	71917	71885	450
110	60-125	160	200	200	None	With	28x20x1½	71906	71871	450
130	25-55	200	250	200	300	Without	28x20x1½	71918	71886	500
130	60-125	200	250	200	300	With	28x20x1½	71907	71872	500
165	25-55	250	300	300	300	Without	31x20x1½	71919	71887	575
165	60-125	250	300	300	300	With	31x20x1½	71908	71873	575
200	25-55	300	400	300	400	Without	31x20x1½	71920	71888	575
200	60-125	300	400	300	400	With	31x20x1½	71909	71874	575
275	25-125	400	500	500	600	Without	31x20x1½	71921	71889	600
300	25-125	500	600	500	600	Without	31x20x1½	71922	71890	600
†330	25-125	500	600	500	600	Without	31x20x1½	71924	71896	975
440	25-125	650	800	800	800	Without	32x28x2	71925	71897	1325
530	25-125	800	1000	800	1000	Without	32x28x2	71926	71898	1325
660	25-125	1000	1200	1000	1500	Without	32x28x2	71927	71899	1475

550 VOLTS

20.5	25-55	25	30	200	None	Without	28x20x1½	71911	71879	450
20.5	60-125	25	30	200	None	With	28x20x1½	71900	71865	450
27.5	25-55	30	40	200	None	Without	28x20x1½	71912	71880	450
27.5	60-125	30	40	200	None	With	28x20x1½	71901	71866	450
40	25-55	50	60	200	None	Without	28x20x1½	71913	71881	450
40	60-125	50	60	200	None	With	28x20x1½	71902	71867	450
55	25-55	65	80	200	None	Without	28x20x1½	71914	71882	450
55	60-125	65	80	200	None	With	28x20x1½	71903	71868	450
68	25-55	80	100	200	None	Without	28x20x1½	71915	71883	450
68	60-125	80	100	200	None	With	28x20x1½	71904	71869	450
100	25-55	125	150	200	None	Without	28x20x1½	71916	71884	450
100	60-125	125	150	200	None	With	28x20x1½	71905	71870	450
135	25-55	160	200	200	None	Without	28x20x1½	71917	71885	450
135	60-125	160	200	200	None	With	28x20x1½	71906	71871	450

* Used only with motors exceeding 110 h.p. capacity.

† Used only with motors exceeding 125 h.p. capacity.

‡ Used only with motors exceeding 300 h.p. capacity.

SWITCHBOARD PANELS

THREE-PHASE INDUCTION MOTOR PANELS 220, 440, 550 AND 2080 VOLTS
60 CYCLES—64 AND 76 INCHES HIGH

FORM K INDUCTION MOTOR PANELS

550 VOLTS (Concluded)

H.P. of Motor	Frequency	AMP. CAPACITY				Compensator Mounting	Size of Panel in Ins.	CAT. NO.		Ship. Wt.
		Panel	Ammeter	Main Switch	Current Trans.			With Low Voltage	Without Low Voltage	
165	25- 55	200	250	200	300	Without	28x20x1½	71918	71886	500
165	60-125	200	250	200	300	With	28x20x1½	71907	71872	500
205	25- 55	250	300	300	300	Without	31x20x1½	71919	71887	575
205	60-125	250	300	300	300	With	31x20x1½	71908	71873	575
250	25- 55	300	400	300	400	Without	31x20x1½	71920	71888	575
250	60-125	300	400	300	400	With	31x20x1½	71909	71874	575
300	25-125	400	500	500	600	Without	31x20x1½	71921	71889	600
*345	25-125	400	500	500	600	Without	31x20x1½	71923	71895	975
410	25-125	500	600	500	600	Without	31x20x1½	71924	71896	975
550	25-125	650	800	800	800	Without	32x28x2	71925	71897	1325
660	25-125	800	1000	800	1000	Without	32x28x2	71926	71898	1325
825	25-125	1000	1200	1000	1500	Without	32x28x2	71927	71899	1475

* Used only with motors exceeding 300 h.p. capacity.

2080 VOLTS

26	25- 55	8	10	200	None	Without	28x20x1½	71935	71876	500
26	60-125	8	10	200	None	With	28x20x1½	71928	71862	500
39	25- 55	12	15	200	None	Without	28x20x1½	71936	71877	500
39	60-125	12	15	200	None	With	28x20x1½	71929	71863	500
52	25- 55	16	20	200	None	Without	28x20x1½	71937	71878	500
52	60-125	16	20	200	None	With	28x20x1½	71930	71864	500
78	25- 55	25	30	200	None	Without	28x20x1½	71938	71879	500
78	60-125	25	30	200	None	With	28x20x1½	71931	71865	500
100	25- 55	30	40	200	None	Without	28x20x1½	71939	71880	500
100	60-125	30	40	200	None	With	28x20x1½	71932	71866	500
155	25- 55	50	60	200	None	Without	28x20x1½	71940	71881	500
155	60-125	50	60	200	None	With	28x20x1½	71933	71867	500
205	25- 55	65	80	200	None	Without	28x20x1½	71941	71882	500
200	60-125	65	80	200	None	With	28x20x1½	71934	71868	500
260	25-125	80	100	200	None	Without	28x20x1½	71942	71883	500
390	25-125	125	150	200	None	Without	28x20x1½	71943	71884	500
450	25-125	160	200	200	None	Without	28x20x1½	71944	71885	500
*520	25-125	160	200	200	None	Without	28x20x1½	71945	71891	800
625	25-125	200	250	200	300	Without	28x20x1½	71946	71892	825
780	25-125	250	300	300	300	Without	31x20x1½	71947	71893	975
940	25-125	300	400	300	400	Without	31x20x1½	71948	71894	975
1300	25-125	400	500	500	600	Without	31x20x1½	71949	71895	1000

* Used only with motors exceeding 450 h.p. capacity.

Panels with low voltage release coils each include one potential transformer. When these panels are used on frequencies of less than 60 cycles, an additional charge will be made.

FORM L INDUCTION MOTOR PANELS

220 VOLTS

H.P. of Motor	AMP. CAPACITY				Size of Panel in Ins.	CAT. NO.		Ship. Wt.
	Panel	Ammeter	Switch	Current Trans.		With Low Voltage	Without Low Voltage	
22	65	80	200	None	28x20x1½	71914	71882	450
27.5	80	100	200	None	28x20x1½	71915	71883	450
40	125	150	200	None	28x20x1½	71916	71884	450
55	160	200	200	None	28x20x1½	71917	71885	450
65	200	250	200	300	28x20x1½	71918	71886	500
80	250	300	300	300	31x20x1½	71919	71887	575
100	300	400	300	400	31x20x1½	71920	71888	575
135	400	500	500	600	31x20x1½	71921	71889	600
165	500	600	500	600	31x20x1½	71922	71890	600

SWITCHBOARD PANELS

FORM L INDUCTION MOTOR PANELS (Concluded)

440 VOLTS

H. P. of Motor	AMP. CAPACITY				Size of Panel in Ins.	CAT. NO.		Ship. Wt.
	Panel	Ammeter	Switch	Current Trans.		With Low Voltage	Without Low Voltage	
22	30	40	200	None	28x20x1 $\frac{1}{2}$	71912	71880	450
33	50	60	200	None	28x20x1 $\frac{1}{2}$	71913	71881	450
44	65	80	200	None	28x20x1 $\frac{1}{2}$	71914	71882	450
55	80	100	200	None	28x20x1 $\frac{1}{2}$	71915	71883	450
80	125	150	200	None	28x20x1 $\frac{1}{2}$	71916	71884	450
110	160	200	200	None	28x20x1 $\frac{1}{2}$	71917	71885	450
130	200	250	200	300	28x20x1 $\frac{1}{2}$	71918	71886	500
165	250	300	300	300	31x20x1 $\frac{1}{2}$	71919	71887	575
200	300	400	300	400	31x20x1 $\frac{1}{2}$	71920	71888	575

550 VOLTS

20.5	25	30	200	None	28x20x1 $\frac{1}{2}$	71911	71879	450
27.5	30	40	200	None	28x20x1 $\frac{1}{2}$	71912	71880	450
40	50	60	200	None	28x20x1 $\frac{1}{2}$	71913	71881	450
55	65	80	200	None	28x20x1 $\frac{1}{2}$	71914	71882	450
68	80	100	200	None	28x20x1 $\frac{1}{2}$	71915	71883	450
100	125	150	200	None	28x20x1 $\frac{1}{2}$	71916	71884	450
135	160	200	200	None	28x20x1 $\frac{1}{2}$	71917	71885	450
165	200	250	200	300	28x20x1 $\frac{1}{2}$	71918	71886	500
205	250	300	300	300	31x20x1 $\frac{1}{2}$	71919	71887	575

* 2080 VOLTS

26	8	10	200	None	28x20x1 $\frac{1}{2}$	71935	71876	500
39	12	15	200	None	28x20x1 $\frac{1}{2}$	71936	71877	500
52	16	20	200	None	28x20x1 $\frac{1}{2}$	71937	71878	500
78	25	30	200	None	28x20x1 $\frac{1}{2}$	71938	71879	500
100	30	40	200	None	28x20x1 $\frac{1}{2}$	71939	71880	500
155	50	60	200	None	28x20x1 $\frac{1}{2}$	71940	71881	500
205	65	80	200	None	28x20x1 $\frac{1}{2}$	71941	71882	500

* Panels with low voltage release coils each include one potential transformer. When these panels are used on frequencies of less than 60 cycles, an additional charge will be made.

FORM LM INDUCTION MOTOR PANELS

440 VOLTS

H. P. of Motor	AMP. CAPACITY				Type of Controller	Size of Panel in Ins.	CAT. NO.		Ship. Wt.
	Panel	Ammeter	Switch	Current Trans.			With Low Voltage	Without Low Voltage	
275	400	500	500	600	T-20	48x20x1 $\frac{1}{2}$	71966	71957	800
330	500	600	500	600	T-20	48x20x1 $\frac{1}{2}$	71967	71958	800
440	650	800	800	800	T-20	48x20x1 $\frac{1}{2}$	71968	71959	975
530	800	1000	800	1000	T-20	48x20x1 $\frac{1}{2}$	71969	71960	975
600	1000	1200	1000	1500	T-20	48x20x1 $\frac{1}{2}$	71970	71961	1000
*660	1000	1200	1000	1500	T-11	48x20x1 $\frac{1}{2}$	71972	71964	1000

550 VOLTS

250	300	400	300	400	T-20	48x20x1 $\frac{1}{2}$	71965	71954	725
345	400	500	500	600	T-20	48x20x1 $\frac{1}{2}$	71966	71957	800
410	500	600	500	600	T-20	48x20x1 $\frac{1}{2}$	71967	71958	800
550	650	800	800	800	T-20	48x20x1 $\frac{1}{2}$	71968	71959	975
600	800	1000	800	1000	T-20	48x20x1 $\frac{1}{2}$	71969	71960	975
*660	800	1000	800	1000	T-11	48x20x1 $\frac{1}{2}$	71971	71963	975
825	1000	1200	1000	1500	T-11	48x20x1 $\frac{1}{2}$	71972	71964	1000

2080 VOLTS

260	80	100	200	None	T-20	48x20x1 $\frac{1}{2}$	71973	71950	625
390	125	150	200	None	T-20	48x20x1 $\frac{1}{2}$	71974	71951	625
520	160	200	200	None	T-20	48x20x1 $\frac{1}{2}$	71975	71952	625
600	200	250	200	300	T-20	48x20x1 $\frac{1}{2}$	71976	71953	675
780	250	300	300	300	T-11	48x20x1 $\frac{1}{2}$	71977	71955	725
940	300	400	300	400	T-11	48x20x1 $\frac{1}{2}$	71978	71956	725
1300	400	500	500	600	T-11	48x20x1 $\frac{1}{2}$	71979	71962	800

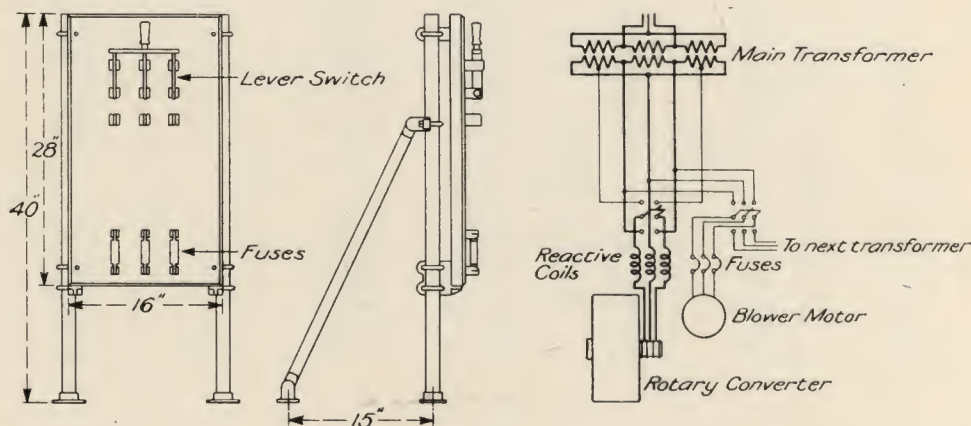
† 2080 volt panels with low voltage release coils each include one potential transformer. When these panels are used on frequencies of less than 60 cycles an additional charge will be made.

* Used only with motors exceeding 600 h.p. capacity.

SWITCHBOARD PANELS

LOW VOLTAGE THREE-PHASE INDUCTION MOTOR PANELS

Blower motors for supplying air to the step-down transformers in railway substations are invariably supplied from the low voltage side of the main step-down transformer, the voltage ranging from 370 to 440 volts. The transformers are not paralleled on the low tension side and, therefore, in order to make the blower motors independent of the transformer, the panels are provided with double throw switches so that the motor may always be connected to the transformer in operation.



H. P. of Motor	Amp. Cap. of Fuse	Approx. Ship. Wt. Lb.	Cat. No.	H. P. of Motor	Amp. Cap. of Fuse	Approx. Ship. Wt. Lb.	Cat. No.
3-1	5	175	46305	5	25	175	46308
2	10	175	46306	7.5-9	45	175	46309
3-4	20	175	46307				

OIL SWITCH PANELS FOR TYPE F FORM K-3 OIL SWITCHES

These panels are designed for the mounting of any of the form K-3 oil switches listed in this Catalogue. They are made of Natural Black Slate and are mounted on pipe supports 48 inches high with suitable floor braces, as shown in the accompanying illustration.

This combination of panel and oil switch supersedes the Form I oil switch for wall mounting and can be used where the Form K-7 oil switch does not fulfill the requirements.



Cat. No.	Size	Description
58292	16x16x1½"	For 100-200-300-500 Amp. single throw switches and 100 and 200 Amp. double throw switches.
58293	16x20x1½"	For 300 and 500 Amp. double throw switches.

PANEL BOARDS AND CABINETS

General Electric panel boards and cabinets are compact and well finished, possess high grade features throughout, and represent the latest and most satisfactory devices of their kind in the market. Only the best material enters into their construction.

The standard line listed on the following pages has been selected after careful study of the general requirements, but other panels to meet special conditions can be made promptly to meet the most exacting specifications.

PANELS.—These panels are arranged for Plug Fuses, N.E. Code Standard Enclosed Fuses, and Link Fuses in the circuits, with or without switches.

SWITCHES.—The switches used on all panels are of the strongest mechanical construction, each individual circuit switch has a capacity of 30 amps.

MAINS.—Each type of panel is arranged for 5 forms of main connections, namely Forms L, L-2, F, FL and F-2. The main terminals, bus bars, switches and enclosed fuses on Form L and Form F panels are calculated for a capacity of 6 amps. per circuit on 2 to 2-wire and 3 to 3-wire panels, and 3 amps. per circuit on 3 to 2-wire panels. Where panels with through mains, for example, Forms L-2, FL and F-2, are specified, we will calculate the main lugs, main switches, main fuses and bus bars to carry 50 per cent. in excess of the above rating.

SLATE FRAME.—By the use of a slate frame or set of barriers around the panel, a more finished appearance is given to the cabinet, as

it separates the wiring in the cabinet from the active part of the panel. This frame consists of four pieces of slate mounted on the edge of the panel and fastened to the back of the cabinet by corner irons. The slot in the frame opposite each terminal through which the of the panel before the slate frame is placed connecting the circuits to the board.

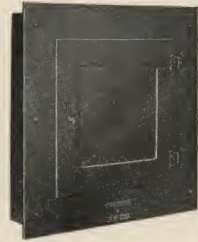
FINISHES.—Any finish desired or called the General Electric Company strongly slate with satin finished bus bars and branch and renders the appearance of the panel very

CABINETS.—We are prepared to To simplify the listing of cabinets only dimensions of the panel desired the proper

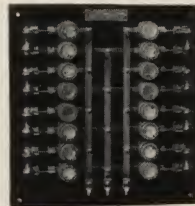
EXTRAS.—We are prepared at all times the most exacting specifications, and can when requesting quotations on special voltage, distribution and finish should be as to just what is required.



Standard Wooden Cabinet



Standard Steel Cabinet



Standard Panel Plug Fused Circuits

for in specifications can be furnished, but recommends its No. 1 or plain black finished connections. This is a very durable finish attractive.

furnish cabinets of various descriptions. the dimensions are given, and from the cabinets may be easily selected.

to quote promptly on special panels to meet make prompt delivery of such panels, but material, complete information in regard to furnished, so that there cannot be any doubt

INSTRUCTIONS FOR ORDERING

An order should contain a specific description of the desired panel or cabinet; for example, after selecting the desired panel or cabinet from any of the tables on the following pages, reference should be made to the general catalog number given at the extreme left of the page, and the order should read as follows:

Panel. Cat. No. Form Finish

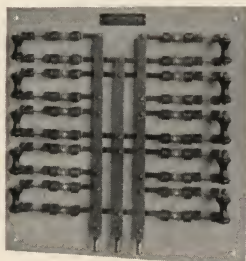
Cabinet. Type Finish

If frame, fuses, or door lining are required, they, together with the finish, should be distinctly specified. If form or finish is not specified, Form L panels having No. 1 finish will be furnished.

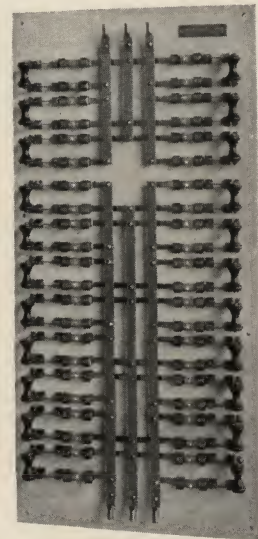
If finish of cabinet is not specified, dead black will be furnished for steel cabinets and natural color for wood cabinets.

If any alterations in standard panels and cabinets are desired; for example, meter loops, extra heavy mains, extra switches, or special drilling for entrance and exit of cable, etc., such alterations should be stated on the face of the order.

Do not order "same as last". If advisable to refer to the previous order, give its date, number, our invoice number, and full rating of the name plate, so that delay in locating it may be avoided.



Standard Panel Enclosed Fused Circuits



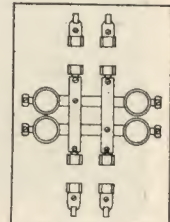
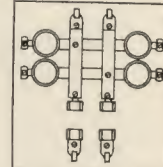
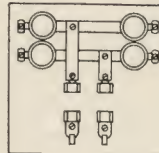
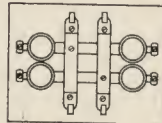
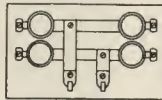
Panel arranged for separate Hall Lighting and Watchman's Circuits

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

TWO-WIRE MAINS, DOUBLE BRANCH, WITHOUT CIRCUIT SWITCHES

WITHOUT MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	33110	\$3.00	7	9	4 1/2	\$1.90	\$3.80	7	9	4 1/2	\$1.90	\$3.75	11	9	4 1/2	\$2.25	\$4.55	11	9	4 1/2	\$2.25	\$5.30	16	9	4 1/2	\$2.35
4	33111	5.00	10	9	4 1/2	2.40	5.80	10	9	4 1/2	2.40	5.75	14	9	4 1/2	2.75	6.80	16	9	4 1/2	2.75	7.55	20	9	4 1/2	2.85
6	33112	7.00	13	9	4 1/2	2.90	7.80	13	9	4 1/2	2.90	8.00	19	9	4 1/2	3.25	8.80	19	9	4 1/2	3.25	9.55	24	9	4 1/2	3.35
8	33113	9.00	16	9	4 1/2	3.40	9.80	17	9	4 1/2	3.50	10.00	22	9	4 1/2	3.75	12.30	25	9	4 1/2	3.75	13.05	30	9	4 1/2	3.85
10	33114	11.00	19	9	4 1/2	3.90	11.95	20	9	4 1/2	4.00	12.00	25	9	4 1/2	4.25	14.30	28	9	4 1/2	4.25	15.05	35	9	4 1/2	4.35
12	33115	13.00	22	9	4 1/2	4.40	13.95	24	9	4 1/2	4.50	15.50	31	9	4 1/2	4.70	19.30	34	9	4 1/2	4.70	20.30	40	9	4 1/2	4.75
14	33116	15.00	26	9	4 1/2	4.85	15.95	27	9	4 1/2	4.95	17.50	34	9	4 1/2	5.15	21.30	37	9	4 1/2	5.15	22.30	43	9	4 1/2	5.20
16	33117	17.00	29	9	4 1/2	5.25	17.95	30	9	4 1/2	5.35	19.50	37	9	4 1/2	5.60	23.30	40	9	4 1/2	5.60	24.30	46	9	4 1/2	5.65
18	33118	19.00	33	9	4 1/2	5.70	20.35	33	9	4 1/2	5.70	24.50	43	9	4 1/2	6.05	25.45	43	9	4 1/2	6.05	26.45	49	9	4 1/2	6.10
20	33119	21.00	36	9	4 1/2	6.10	22.35	36	9	4 1/2	6.10	26.50	46	9	4 1/2	6.45	27.45	46	9	4 1/2	6.45	28.45	52	9	4 1/2	6.50
22	39552	23.00	39	9	4 1/2	6.50	24.35	40	9	4 1/2	6.60	28.50	49	9	4 1/2	6.75	29.45	50	9	4 1/2	6.75	31.95	58	9	4 1/2	6.90
24	39553	25.00	42	9	4 1/2	6.90	26.35	43	9	4 1/2	7.00	30.50	52	9	4 1/2	7.15	37.95	56	9	4 1/2	7.15	40.45	65	9	4 1/2	7.30
26	39554	27.00	45	9	4 1/2	7.25	28.35	47	9	4 1/2	7.40	32.50	55	9	4 1/2	7.50	39.95	59	9	4 1/2	7.50	42.45	68	9	4 1/2	7.65
28	39555	29.00	48	9	4 1/2	7.60	30.35	50	9	4 1/2	7.80	34.50	58	9	4 1/2	7.80	41.95	63	9	4 1/2	7.80	44.45	71	9	4 1/2	8.00
30	39556	31.00	51	9	4 1/2	7.95	32.35	53	9	4 1/2	8.20	36.50	62	9	4 1/2	8.20	43.95	66	9	4 1/2	8.20	46.45	74	9	4 1/2	8.35

250 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	33120	\$3.50	8	9	4 1/2	\$2.00	\$4.30	9	9	4 1/2	\$2.00	\$4.25	12	9	4 1/2	\$2.30	\$5.05	12	9	4 1/2	\$2.30	\$5.80	16	9	4 1/2	\$2.50
4	33121	6.00	12	9	4 1/2	2.50	6.80	13	9	4 1/2	2.50	6.75	16	9	4 1/2	2.80	7.80	18	9	4 1/2	2.80	8.55	22	9	4 1/2	3.00
6	33122	8.50	16	9	4 1/2	3.00	9.30	17	9	4 1/2	3.00	9.50	21	9	4 1/2	3.30	10.30	22	9	4 1/2	3.30	11.05	26	9	4 1/2	3.50
8	33123	11.00	20	9	4 1/2	3.50	11.80	21	9	4 1/2	3.50	12.00	25	9	4 1/2	3.80	14.30	29	9	4 1/2	3.80	15.05	33	9	4 1/2	4.00
10	33124	13.50	24	9	4 1/2	4.00	14.45	25	9	4 1/2	4.00	14.50	29	9	4 1/2	4.30	16.80	33	9	4 1/2	4.30	17.55	37	9	4 1/2	4.50
12	33125	16.00	28	9	4 1/2	4.45	16.95	30	9	4 1/2	4.45	18.50	36	9	4 1/2	4.75	22.30	39	9	4 1/2	4.75	23.30	45	9	4 1/2	4.90
14	33126	18.50	32	9	4 1/2	4.90	19.45	34	9	4 1/2	4.90	21.00	40	9	4 1/2	5.20	24.80	43	9	4 1/2	5.20	25.80	49	9	4 1/2	5.30
16	33127	21.00	36	9	4 1/2	5.35	21.95	38	9	4 1/2	5.35	23.50	44	9	4 1/2	5.65	27.30	47	9	4 1/2	5.65	28.30	53	9	4 1/2	5.70
18	33128	23.50	41	9	4 1/2	5.80	24.85	42	9	4 1/2	5.80	29.00	50	9	4 1/2	6.05	29.95	51	9	4 1/2	6.05	30.95	57	9	4 1/2	6.10
20	33129	26.00	45	9	4 1/2	6.25	27.35	46	9	4 1/2	6.25	31.50	54	9	4 1/2	6.45	32.45	55	9	4 1/2	6.45	33.45	61	9	4 1/2	6.50

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

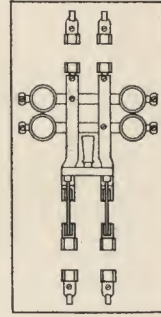
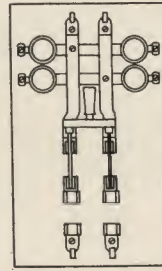
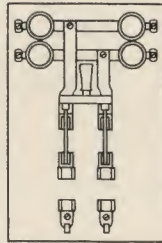
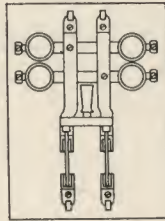
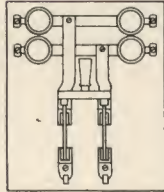
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

TWO-WIRE MAINS, DOUBLE BRANCH, WITHOUT CIRCUIT SWITCHES

WITH MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	33212	\$5.00	14	9	4 1/2	\$2.30	\$5.80	14	9	4 1/2	\$2.30	\$5.75	14	9	4 1/2	\$2.30	\$6.55	14	9	4 1/2	\$2.30	\$7.30	18	9	4 1/2	\$2.50
4	33213	7.00	17	9	4 1/2	2.80	7.80	19	9	4 1/2	2.80	7.75	17	9	4 1/2	2.80	8.80	19	9	4 1/2	2.80	9.55	23	9	4 1/2	3.00
6	33214	9.90	22	9	4 1/2	3.30	10.70	22	9	4 1/2	3.30	10.90	22	9	4 1/2	3.30	11.70	22	9	4 1/2	3.30	12.45	26	9	4 1/2	3.50
8	33215	11.90	25	9	4 1/2	3.80	12.70	27	9	4 1/2	3.80	12.90	25	9	4 1/2	3.80	15.20	28	9	4 1/2	3.80	15.95	33	9	4 1/2	4.00
10	33216	13.90	28	9	4 1/2	4.30	14.85	30	9	4 1/2	4.30	14.90	28	9	4 1/2	4.30	17.20	31	9	4 1/2	4.30	17.95	36	9	4 1/2	4.50
12	33217	17.10	33	9	4 1/2	4.75	18.05	37	9	5 1/4	4.75	19.60	34	9	4 1/2	4.75	23.40	39	9	5 1/4	4.75	24.40	45	9	5 1/4	4.95
14	33218	19.10	36	9	4 1/2	5.15	20.05	40	9	5 1/4	5.15	21.60	37	9	4 1/2	5.15	25.40	42	9	5 1/4	5.15	26.40	48	9	5 1/4	5.35
16	33219	21.10	39	9	4 1/2	5.55	22.05	43	9	5 1/4	5.55	23.60	41	9	4 1/2	5.55	27.40	45	9	5 1/4	5.55	28.40	51	9	5 1/4	5.75
18	33220	29.10	46	9	5 1/4	5.95	30.45	47	9	5 1/4	5.95	34.60	48	9	5 1/4	5.95	35.55	49	9	5 1/4	5.95	36.55	55	9	5 1/4	6.15
20	33221	31.10	49	9	5 1/4	6.35	32.45	50	9	5 1/4	6.35	36.60	51	9	5 1/4	6.35	37.55	52	9	5 1/4	6.35	38.55	58	9	5 1/4	6.55
22	39582	33.10	52	9	5 1/4	6.75	34.45	53	9	5 1/4	6.75	38.60	54	9	5 1/4	6.75	39.55	55	9	5 1/4	6.75	42.05	64	9	5 1/4	6.95
24	39583	35.10	55	9	5 1/4	7.15	36.45	59	9	6	7.15	40.60	57	9	5 1/4	7.15	48.05	63	9	6	7.15	50.55	72	9	6	7.30
26	39584	37.10	59	9	5 1/4	7.50	38.45	62	9	6	7.50	42.60	61	9	5 1/4	7.50	50.05	66	9	6	7.50	52.55	75	9	6	7.65
28	39585	39.10	62	9	5 1/4	7.85	40.45	66	9	6	7.85	44.60	64	9	5 1/4	7.85	52.05	69	9	6	7.85	54.55	78	9	6	8.00
30	39586	41.10	65	9	5 1/4	8.20	42.45	69	9	6	8.20	46.60	67	9	5 1/4	8.20	54.05	72	9	6	8.20	56.55	81	9	6	8.35

250 VOLTS

2	33222	\$5.50	16	9	4 1/2	\$2.40	\$6.30	16	9	4 1/2	\$2.40	\$6.25	16	9	4 1/2	\$2.40	\$7.05	16	9	4 1/2	\$2.40	\$7.80	20	9	4 1/2	\$2.60
4	33223	8.00	20	9	4 1/2	2.90	8.80	23	9	4 1/2	2.90	8.75	20	9	4 1/2	2.90	9.80	23	9	4 1/2	2.90	10.55	27	9	4 1/2	3.10
6	33224	11.40	26	9	4 1/2	3.40	12.20	27	9	4 1/2	3.40	12.40	26	9	4 1/2	3.40	13.20	27	9	4 1/2	3.40	13.95	31	9	4 1/2	3.60
8	33225	13.90	30	9	4 1/2	3.90	14.70	32	9	4 1/2	3.90	14.90	30	9	4 1/2	3.90	17.20	33	9	4 1/2	3.90	17.95	37	9	4 1/2	4.10
10	33226	16.40	34	9	4 1/2	4.40	17.35	36	9	4 1/2	4.40	17.40	34	9	4 1/2	4.40	19.70	37	9	4 1/2	4.40	20.45	41	9	4 1/2	4.60
12	33227	20.10	40	9	4 1/2	4.85	21.05	43	9	5 1/4	4.85	22.60	40	9	4 1/2	4.85	26.40	45	9	5 1/4	4.85	27.40	50	9	5 1/4	5.05
14	33228	22.60	43	9	4 1/2	5.25	23.55	47	9	5 1/4	5.25	25.10	44	9	4 1/2	5.25	28.90	49	9	5 1/4	5.25	29.90	54	9	5 1/4	5.45
16	33229	25.10	47	9	4 1/2	5.65	26.05	51	9	5 1/4	5.65	27.60	48	9	4 1/2	5.65	31.40	53	9	5 1/4	5.65	32.40	58	9	5 1/4	5.85
18	33230	33.60	53	9	5 1/4	6.05	34.95	55	9	5 1/4	6.05	39.10	55	9	5 1/4	6.05	40.05	57	9	5 1/4	6.05	41.05	62	9	5 1/4	6.25
20	33231	36.10	57	9	5 1/4	6.45	37.45	58	9	5 1/4	6.45	41.60	59	9	5 1/4	6.45	42.55	60	9	5 1/4	6.45	43.55	66	9	5 1/4	6.65

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

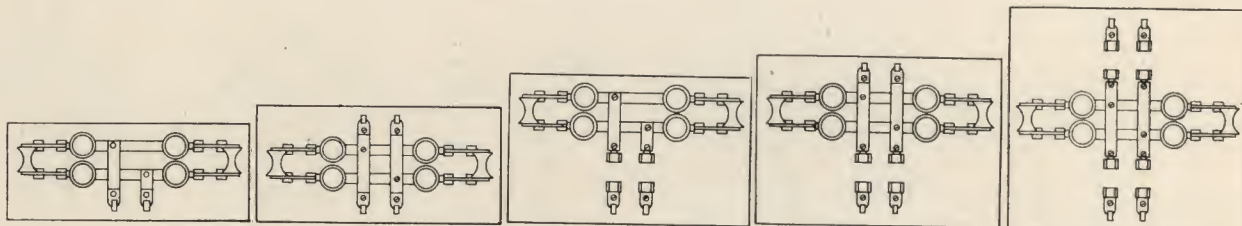
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	33152	\$4.25	7	14	4½	\$2.10	\$5.05	7	14	4½	\$2.10	\$5.00	11	14	4½	\$2.30	\$5.80	11	14	4½	\$2.30	\$6.55	16	14	4½	\$2.45
4	33153	7.50	10	14	4½	2.60	8.30	10	14	4½	2.60	8.25	14	14	4½	2.80	9.30	16	14	4½	2.80	10.05	20	14	4½	2.95
6	33154	10.75	13	14	4½	3.10	11.55	13	14	4½	3.10	11.75	19	14	4½	3.30	12.55	19	14	4½	3.30	13.30	24	14	4½	3.45
8	33155	14.00	16	14	4½	3.60	14.80	17	14	4½	3.60	15.00	22	14	4½	3.80	17.30	25	14	4½	3.80	18.05	30	14	4½	3.95
10	33156	17.25	19	14	4½	4.10	18.20	20	14	4½	4.10	18.25	25	14	4½	4.30	20.55	28	14	4½	4.30	21.30	35	14	4½	4.45
12	33157	20.50	22	14	4½	4.60	21.45	24	14	4½	4.60	23.00	31	14	4½	4.75	26.80	34	14	4½	4.75	27.80	40	14	4½	4.90
14	33158	23.75	26	14	4½	5.05	24.70	27	14	4½	5.05	26.25	34	14	4½	5.15	30.05	37	14	4½	5.15	31.05	43	14	4½	5.30
16	33159	27.00	29	14	4½	5.45	27.95	30	14	4½	5.45	29.50	37	14	4½	5.55	33.30	40	14	4½	5.55	34.30	46	14	4½	5.70
18	33160	30.25	33	14	4½	5.90	31.60	33	14	4½	5.90	35.75	43	14	4½	5.95	36.70	43	14	4½	5.95	37.70	49	14	4½	6.10
20	33161	33.50	36	14	4½	6.30	34.85	36	14	4½	6.30	39.00	46	14	4½	6.35	39.95	46	14	4½	6.35	40.95	52	14	4½	6.50
22	39587	36.75	39	14	4½	6.70	38.10	40	14	4½	6.70	42.25	49	14	4½	6.75	43.20	50	14	4½	6.75	45.70	58	14	4½	6.90
24	39568	40.00	42	14	4½	7.10	41.35	43	14	4½	7.10	45.50	52	14	4½	7.15	52.95	56	14	4½	7.15	55.45	65	14	4½	7.30
26	39569	43.25	45	14	4½	7.45	44.60	47	14	4½	7.45	48.75	55	14	4½	7.50	56.20	59	14	4½	7.50	58.70	68	14	4½	7.65
28	39570	46.50	48	14	4½	7.80	47.85	50	14	4½	7.80	52.00	58	14	4½	7.85	59.45	63	14	4½	7.85	61.95	71	14	4½	8.00
30	39571	49.75	51	14	4½	8.15	51.10	53	14	4½	8.15	55.25	62	14	4½	8.20	62.70	66	14	4½	8.20	65.20	74	14	4½	8.35

250 VOLTS

No. of Cir.	Cat. No.	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame
2	33162	\$5.25	8	15	5 1/2	\$2.30	\$6.05	9	15	5 1/2	\$2.30	\$6.00	12	15	5 1/2	\$2.45	\$6.80	12	15	5 1/2	\$2.45	\$7.55	16	15	5 1/2	\$2.65
4	33163	9.50	12	15	5 1/2	2.80	10.30	13	15	5 1/2	2.80	10.25	16	15	5 1/2	2.95	11.30	18	15	5 1/2	2.95	12.05	22	15	5 1/2	3.15
6	33164	13.75	16	15	5 1/2	3.30	14.55	17	15	5 1/2	3.30	14.75	21	15	5 1/2	3.45	15.55	22	15	5 1/2	3.45	16.30	26	15	5 1/2	3.65
8	33165	18.00	20	15	5 1/2	3.80	18.80	21	15	5 1/2	3.80	19.00	25	15	5 1/2	3.95	21.30	29	15	5 1/2	3.95	22.05	33	15	5 1/2	4.15
10	33166	22.25	24	15	5 1/2	4.30	23.20	25	15	5 1/2	4.30	23.25	29	15	5 1/2	4.45	25.55	33	15	5 1/2	4.45	26.30	37	15	5 1/2	4.65
12	33167	26.50	28	15	5 1/2	4.80	27.45	30	15	5 1/2	4.80	29.00	36	15	5 1/2	4.95	32.80	39	15	5 1/2	4.95	33.80	45	15	5 1/2	5.15
14	33168	30.75	32	15	5 1/2	5.25	31.70	34	15	5 1/2	5.25	33.25	40	15	5 1/2	5.40	37.05	43	15	5 1/2	5.40	38.05	49	15	5 1/2	5.60
16	33169	35.00	36	15	5 1/2	5.65	35.95	38	15	5 1/2	5.65	37.50	44	15	5 1/2	5.80	41.30	47	15	5 1/2	5.80	42.30	53	15	5 1/2	6.00
18	33170	39.25	41	15	5 1/2	6.10	40.60	42	15	5 1/2	6.10	44.75	50	15	5 1/2	6.25	45.70	51	15	5 1/2	6.25	46.70	57	15	5 1/2	6.45
20	33171	43.50	45	15	5 1/2	6.50	44.85	46	15	5 1/2	6.50	49.00	54	15	5 1/2	6.65	49.95	55	15	5 1/2	6.65	50.95	61	15	5 1/2	6.85

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

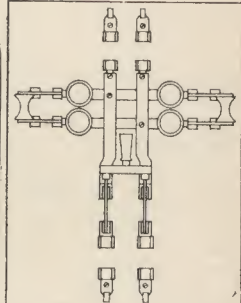
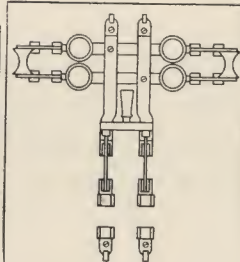
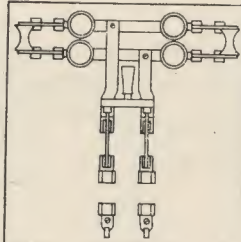
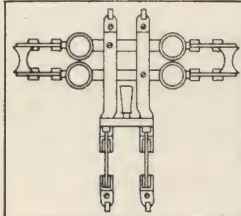
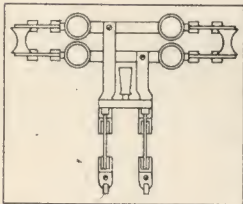
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITH MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate for Frame		L	W	D	Extra for Slate for Frame		L	W	D	Extra for Slate for Frame		L	W	D	Extra for Slate for Frame		L	W	D	Extra for Slate for Frame
2	33244	\$6.25	14	14	4 1/2	\$2.40	\$7.05	14	14	4 1/2	\$2.40	\$7.00	14	14	4 1/2	\$2.40	\$7.80	14	14	4 1/2	\$2.40	\$8.55	18	14	4 1/2	\$2.70
4	33245	9.50	17	14	4 1/2	2.90	10.30	19	14	4 1/2	2.90	10.25	17	14	4 1/2	2.90	11.30	19	14	4 1/2	2.90	12.05	23	14	4 1/2	3.20
6	33246	13.65	22	14	4 1/2	3.40	14.45	22	14	4 1/2	3.40	14.65	22	14	4 1/2	3.40	15.45	22	14	4 1/2	3.40	16.20	26	14	4 1/2	3.70
8	33247	16.90	25	14	4 1/2	3.90	17.70	27	14	4 1/2	3.90	17.90	25	14	4 1/2	3.90	20.20	28	14	4 1/2	3.90	20.95	33	14	4 1/2	4.20
10	33248	20.15	28	14	4 1/2	4.40	21.10	30	14	4 1/2	4.40	21.15	28	14	4 1/2	4.40	23.45	31	14	4 1/2	4.40	24.20	36	14	4 1/2	4.70
12	33249	24.60	33	14	4 1/2	4.85	25.55	37	14	5 1/4	4.85	27.10	34	14	4 1/2	4.85	30.90	39	14	5 1/4	4.85	31.90	45	14	5 1/4	5.15
14	33250	27.85	36	14	4 1/2	5.25	28.80	40	14	5 1/4	5.25	30.35	37	14	4 1/2	5.25	34.15	42	14	5 1/4	5.25	35.15	48	14	5 1/4	5.55
16	33251	31.10	39	14	4 1/2	5.65	32.05	43	14	5 1/4	5.65	33.60	41	14	4 1/2	5.65	37.40	45	14	5 1/4	5.65	38.40	51	14	5 1/4	5.85
18	33252	40.35	46	14	5 1/4	6.05	41.70	47	14	5 1/4	6.05	45.85	48	14	5 1/4	6.05	46.80	49	14	5 1/4	6.05	47.80	55	14	5 1/4	6.35
20	33253	43.60	49	14	5 1/4	6.45	44.95	50	14	5 1/4	6.45	49.10	51	14	5 1/4	6.45	50.05	52	14	5 1/4	6.45	51.05	58	14	5 1/4	6.75
22	33257	46.85	52	14	5 1/4	6.85	48.20	53	14	5 1/4	6.85	52.35	54	14	5 1/4	6.85	53.30	55	14	5 1/4	6.85	55.80	64	14	5 1/4	7.15
24	33258	50.10	55	14	5 1/4	7.25	51.45	59	14	6	7.25	55.60	57	14	5 1/4	7.25	63.05	63	14	6	7.25	65.55	72	14	6	7.55
26	33259	53.35	59	14	5 1/4	7.60	54.70	62	14	6	7.60	58.85	61	14	5 1/4	7.60	66.30	66	14	6	7.60	68.80	75	14	6	7.90
28	33260	56.60	62	14	5 1/4	7.95	57.95	66	14	6	7.95	62.10	64	14	5 1/4	7.95	69.55	69	14	6	7.95	72.05	78	14	6	8.25
30	33601	59.85	65	14	5 1/4	8.30	61.20	69	14	6	8.30	65.35	67	14	5 1/4	8.30	72.80	72	14	6	8.30	75.30	81	14	6	8.60

250 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate for Frame		L	W	D	Extra for Slate for Frame		L	W	D	Extra for Slate for Frame		L	W	D	Extra for Slate for Frame		L	W	D	Extra for Slate for Frame
2	33254	\$7.25	16	15	5 1/2	\$2.65	\$8.05	16	15	5 1/2	\$2.65	\$8.00	16	15	5 1/2	\$2.65	\$8.80	16	15	5 1/2	\$2.65	\$9.55	20	15	5 1/2	\$2.80
4	33255	11.50	20	15	5 1/2	3.15	12.30	23	15	5 1/2	3.15	12.25	20	15	5 1/2	3.15	13.30	23	15	5 1/2	3.15	14.05	27	15	5 1/2	3.30
6	33256	16.65	26	15	5 1/2	3.65	17.45	27	15	5 1/2	3.65	17.65	26	15	5 1/2	3.65	18.45	27	15	5 1/2	3.65	19.20	31	15	5 1/2	3.80
8	33257	20.90	30	15	5 1/2	4.15	21.70	32	15	5 1/2	4.15	21.90	30	15	5 1/2	4.15	24.20	33	15	5 1/2	4.15	24.95	37	15	5 1/2	4.30
10	33258	25.15	34	15	5 1/2	4.65	26.10	36	15	5 1/2	4.65	26.15	34	15	5 1/2	4.65	28.45	37	15	5 1/2	4.65	29.20	41	15	5 1/2	4.80
12	33259	30.60	40	15	5 1/2	5.10	31.55	43	15	5 1/2	5.10	33.10	40	15	5 1/2	5.10	36.90	45	15	5 1/2	5.10	37.90	50	15	5 1/2	5.25
14	33260	34.85	43	15	5 1/2	5.55	35.80	47	15	5 1/2	5.55	37.35	44	15	5 1/2	5.55	41.15	49	15	5 1/2	5.55	42.15	54	15	5 1/2	5.65
16	33261	39.10	47	15	5 1/2	6.00	40.05	51	15	5 1/2	6.00	41.60	48	15	5 1/2	6.00	45.40	53	15	5 1/2	6.00	46.40	58	15	5 1/2	6.15
18	33262	49.35	53	15	5 1/2	6.45	50.70	55	15	5 1/2	6.45	54.85	55	15	5 1/2	6.45	55.80	57	15	5 1/2	6.45	57.80	62	15	5 1/2	6.60
20	33263	53.60	57	15	5 1/2	6.90	54.95	58	15	5 1/2	6.90	59.10	59	15	5 1/2	6.90	60.05	60	15	5 1/2	6.90	61.05	66	15	5 1/2	7.05

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

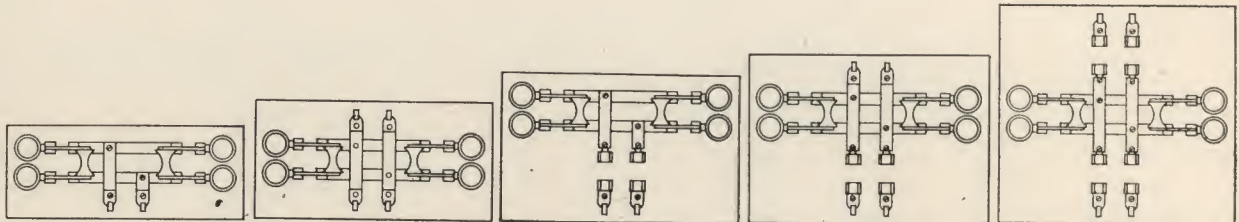
CABINETS

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NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITHOUT MAIN SWITCH



125 VOLTS

FORM L								FORM L-2				FORM F				FORM FL				FORM F-2						
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62760	\$4.25	7	15	4½	\$2.10	\$5.05	7	15	4½	\$2.10	\$5.00	11	15	4½	\$2.30	\$5.80	11	15	4½	\$2.30	\$6.55	16	15	4½	\$2.45
4	62761	7.50	10	15	4½	2.60	8.30	10	15	4½	2.60	8.25	14	15	4½	2.80	9.30	16	15	4½	2.80	10.05	20	15	4½	2.95
6	62762	10.75	13	15	4½	3.10	11.55	13	15	4½	3.10	11.75	19	15	4½	3.30	12.55	19	15	4½	3.30	13.30	24	15	4½	3.45
8	62763	14.00	16	15	4½	3.60	14.80	17	15	4½	3.60	15.00	22	15	4½	3.80	17.30	25	15	4½	3.80	18.05	30	15	4½	3.95
10	62764	17.25	19	15	4½	4.10	18.20	20	15	4½	4.10	18.25	25	15	4½	4.30	20.55	28	15	4½	4.30	21.30	35	15	4½	4.45
12	62765	20.50	22	15	4½	4.60	21.45	24	15	4½	4.60	23.00	31	15	4½	4.75	26.80	34	15	4½	4.75	27.80	40	15	4½	4.90
14	62766	23.75	26	15	4½	5.05	24.70	27	15	4½	5.05	26.25	34	15	4½	5.15	30.05	37	15	4½	5.15	31.05	43	15	4½	5.30
16	62767	27.00	29	15	4½	5.45	27.95	30	15	4½	5.45	29.50	37	15	4½	5.55	33.30	40	15	4½	5.55	34.30	46	15	4½	5.70
18	62768	30.25	33	15	4½	5.90	31.60	33	15	4½	5.90	33.75	43	15	4½	5.95	36.70	43	15	4½	5.95	37.70	49	15	4½	6.10
20	62769	33.50	36	15	4½	6.30	34.85	36	15	4½	6.30	39.00	46	15	4½	6.35	39.95	46	15	4½	6.35	40.95	52	15	4½	6.50
22	62770	36.75	39	15	4½	6.70	38.10	40	15	4½	6.70	42.25	49	15	4½	6.75	43.20	50	15	4½	6.75	45.70	58	15	4½	6.90
24	62771	40.00	42	15	4½	7.10	41.35	43	15	4½	7.10	45.50	52	15	4½	7.15	52.95	56	15	4½	7.15	55.45	65	15	4½	7.30
26	62772	43.25	45	15	4½	7.45	44.60	47	15	4½	7.45	48.75	55	15	4½	7.50	56.20	59	15	4½	7.50	58.70	68	15	4½	7.65
28	62773	46.50	48	15	4½	7.80	47.85	50	15	4½	7.80	52.00	58	15	4½	7.85	59.45	63	15	4½	7.85	61.95	71	15	4½	8.00
30	62774	49.75	51	15	4½	8.15	51.10	53	15	4½	8.15	55.25	62	15	4½	8.20	62.70	66	15	4½	8.20	65.20	74	15	4½	8.35

250 VOLTS

2	62775	\$5.25	8	17	5½	\$2.30	\$6.05	9	17	5½	\$2.30	\$6.00	12	17	5½	\$2.45	\$6.80	12	17	5½	\$2.45	\$7.55	16	17	5½	\$2.65
4	62776	9.50	12	17	5½	2.80	10.30	13	17	5½	2.80	10.25	16	17	5½	2.95	11.30	18	17	5½	2.95	12.05	22	17	5½	3.15
6	62777	13.75	16	17	5½	3.30	14.55	17	17	5½	3.30	14.75	21	17	5½	3.45	15.55	22	17	5½	3.45	16.30	26	17	5½	3.65
8	62778	18.00	20	17	5½	3.80	18.80	21	17	5½	3.80	19.00	25	17	5½	3.95	21.30	29	17	5½	3.95	22.05	33	17	5½	4.15
10	62779	22.25	24	17	5½	4.30	23.20	25	17	5½	4.30	23.25	29	17	5½	4.45	25.55	33	17	5½	4.45	26.30	37	17	5½	4.65
12	62780	26.50	28	17	5½	4.80	27.45	30	17	5½	4.80	29.00	36	17	5½	4.95	32.80	39	17	5½	4.95	33.80	45	17	5½	5.15
14	62781	30.75	32	17	5½	5.25	31.70	34	17	5½	5.25	33.25	40	17	5½	5.40	37.05	43	17	5½	5.40	38.05	49	17	5½	5.60
16	62782	35.00	36	17	5½	5.65	35.95	38	17	5½	5.65	37.50	44	17	5½	5.80	41.30	47	17	5½	5.80	42.30	53	17	5½	6.00
18	62783	39.25	41	17	5½	6.10	40.60	42	17	5½	6.10	44.75	50	17	5½	6.25	45.70	51	17	5½	6.25	46.70	57	17	5½	6.45
20	62784	43.50	45	17	5½	6.50	44.85	46	17	5½	6.50	49.00	54	17	5½	6.65	49.95	55	17	5½	6.65	50.95	61	17	5½	6.85

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

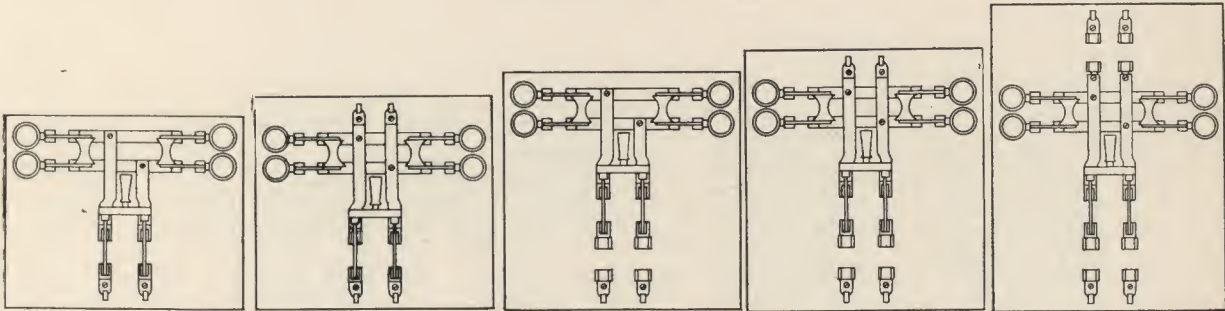
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on page 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITH MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE				List Price	Cat. No.	List Price	SIZE				List Price	Cat. No.	List Price	SIZE				List Price	Cat. No.	List Price	SIZE				List Price	Cat. No.	List Price	SIZE			
			L	W	D	Extra for Slate for Frame				L	W	D	Extra for Slate for Frame				L	W	D	Extra for Slate for Frame				L	W	D	Extra for Slate for Frame				L	W	D	Extra for Slate for Frame
2	62785	\$6.25	14	15	4½	\$2.40		62786	\$7.05	14	15	4½	\$2.40		62787	\$7.00	14	15	4½	\$2.40		62788	\$7.80	14	15	4½	\$2.40		62789	\$8.55	18	15	4½	\$2.70
4	62786	9.50	17	15	4½	2.90		62787	10.30	19	15	4½	2.90		62788	10.25	17	15	4½	2.90		62789	11.30	19	15	4½	2.90		62790	12.05	23	15	4½	3.20
6	62787	13.65	22	15	4½	3.40		62788	14.45	22	15	4½	3.40		62789	14.65	22	15	4½	3.40		62790	15.45	22	15	4½	3.40		62791	16.20	26	15	4½	3.70
8	62788	16.90	25	15	4½	3.90		62789	17.70	27	15	4½	3.90		62790	17.90	25	15	4½	3.90		62791	20.20	28	15	4½	3.90		62792	20.95	33	15	4½	4.20
10	62789	20.15	28	15	4½	4.40		62790	21.10	30	15	4½	4.40		62791	21.15	28	15	4½	4.40		62792	23.45	31	15	4½	4.40		62793	24.20	36	15	4½	4.70
12	62790	24.60	33	15	4½	4.85		62791	25.55	37	15	5½	4.85		62792	27.10	34	15	4½	4.85		62793	30.90	39	15	5½	4.85		62794	31.90	45	15	5½	5.15
14	62791	27.85	36	15	4½	5.25		62792	28.80	40	15	5½	5.25		62793	30.35	37	15	4½	5.25		62794	34.15	42	15	5½	5.25		62795	35.15	48	15	5½	5.55
16	62792	31.10	39	15	4½	5.65		62793	32.05	43	15	5½	5.65		62794	33.60	41	15	4½	5.65		62795	37.40	45	15	5½	5.65		62796	38.40	51	15	5½	5.95
18	62793	40.35	46	15	5½	6.05		62794	41.70	47	15	5½	6.05		62795	45.85	48	15	5½	6.05		62796	46.80	49	15	5½	6.05		62797	47.80	55	15	5½	6.35
20	62794	43.60	49	15	5½	6.45		62795	44.95	50	15	5½	6.45		62796	49.10	51	15	5½	6.45		62797	50.05	52	15	5½	6.45		62798	51.05	58	15	5½	6.75
22	62795	46.85	52	15	5½	6.85		62796	47.20	53	15	5½	6.85		62797	52.35	54	15	5½	6.85		62798	53.30	55	15	5½	6.85		62799	55.80	64	15	5½	7.15
24	62796	50.10	55	15	5½	7.25		62797	51.45	59	15	6	7.25		62798	55.60	57	15	5½	7.25		62799	63.05	63	15	6	7.25			65.55	72	15	6	7.55
26	62797	53.35	59	15	5½	7.60		62798	54.70	62	15	6	7.60		62799	58.85	61	15	5½	7.60			66.30	66	15	6	7.60			68.80	75	15	6	7.90
28	62798	56.60	62	15	5½	7.95		62799	57.95	66	15	6	7.95			62.10	64	15	5½	7.95			69.55	69	15	6	7.95			72.05	78	15	6	8.25
30	62799	59.85	65	15	5½	8.30			61.20	69	15	6	8.30			65.35	67	15	5½	8.30			72.80	72	15	6	8.30			75.30	81	15	6	8.60

250 VOLTS

2	62800	\$7.25	16	17	5½	\$2.65	\$8.05	16	17	5½	\$2.65	\$8.00	16	17	5½	\$2.65	\$8.80	16	17	5½	\$2.65	\$9.55	20	17	5½	\$2.80
4	62801	11.50	20	17	5½	3.15	12.30	23	17	5½	3.15	12.25	20	17	5½	3.15	13.30	23	17	5½	3.15	14.05	27	17	5½	3.30
6	62802	16.65	26	17	5½	3.65	17.45	27	17	5½	3.65	17.65	26	17	5½	3.65	18.45	27	17	5½	3.65	19.20	31	17	5½	3.80
8	62803	20.90	30	17	5½	4.15	21.70	32	17	5½	4.15	21.90	30	17	5½	4.15	24.20	33	17	5½	4.15	24.95	37	17	5½	4.30
10	62804	25.15	34	17	5½	4.65	26.10	36	17	5½	4.65	26.15	34	17	5½	4.65	28.45	37	17	5½	4.65	29.20	41	17	5½	4.80
12	62805	30.60	40	17	5½	5.10	31.55	43	17	5½	5.10	33.10	40	17	5½	5.10	36.90	45	17	5½	5.10	37.90	50	17	5½	5.25
14	62810	34.85	43	17	5½	5.55	35.80	47	17	5½	5.55	37.35	44	17	5½	5.55	41.15	49	17	5½	5.55	42.15	54	17	5½	5.65
16	62811	39.10	47	17	5½	6.00	40.05	51	17	5½	6.00	41.60	48	17	5½	6.00	45.40	53	17	5½	6.00	46.40	58	17	5½	6.15
18	62812	49.35	53	17	5½	6.45	50.70	55	17	5½	6.45	54.85	55	17	5½	6.45	55.80	57	17	5½	6.45	57.80	62	17	5½	6.60
20	62813	53.60	57	17	5½	6.90	54.95	58	17	5½	6.90	59.10	59	17	5½	6.90	60.05	60	17	5½	6.90	61.05	66	17	5½	7.05

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. [Mains, 6 Amps. per circuit.]

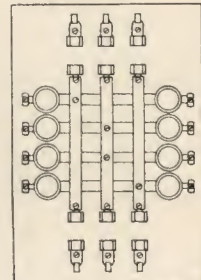
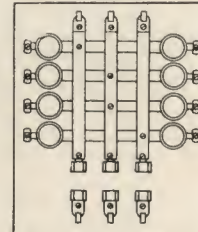
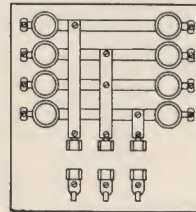
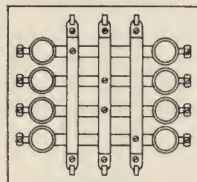
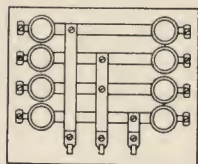
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

No of Cir.	Cat. No.	FORM L					FORM L-2					FORM F					FORM FL					FORM F-2				
		List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	33300	\$3.10	7	11	4 1/2	\$2.00	\$4.30	7	11	4 1/2	\$2.00	\$4.20	11	11	4 1/2	\$2.35	\$5.40	11	11	4 1/2	\$2.35	\$6.50	16	11	4 1/2	\$2.45
4	33301	5.20	10	11	4 1/2	2.50	6.40	10	11	4 1/2	2.50	6.30	14	11	4 1/2	2.85	7.50	14	11	4 1/2	2.85	8.60	19	11	4 1/2	2.95
6	33302	7.30	13	11	4 1/2	3.00	8.50	13	11	4 1/2	3.00	8.40	17	11	4 1/2	3.35	9.60	17	11	4 1/2	3.35	10.70	22	11	4 1/2	3.45
8	33303	9.40	16	11	4 1/2	3.50	10.60	16	11	4 1/2	3.60	10.50	20	11	4 1/2	3.85	12.00	22	11	4 1/2	3.85	13.10	27	11	4 1/2	3.95
10	33304	11.50	19	11	4 1/2	4.00	12.70	19	11	4 1/2	4.10	12.60	23	11	4 1/2	4.35	14.10	25	11	4 1/2	4.35	15.20	30	11	4 1/2	4.45
12	33305	13.60	22	11	4 1/2	4.50	14.80	22	11	4 1/2	4.60	15.00	28	11	4 1/2	4.80	16.20	28	11	4 1/2	4.80	17.60	33	11	4 1/2	4.85
14	33306	15.70	25	11	4 1/2	4.95	16.90	25	11	4 1/2	5.05	17.10	31	11	4 1/2	5.25	20.40	31	11	4 1/2	5.25	21.80	36	11	4 1/2	5.30
16	33307	17.80	28	11	4 1/2	5.35	19.00	29	11	4 1/2	5.45	19.20	34	11	4 1/2	5.70	22.50	37	11	4 1/2	5.70	23.90	42	11	4 1/2	5.75
18	33308	19.90	32	11	4 1/2	5.80	21.25	32	11	4 1/2	5.80	21.30	37	11	4 1/2	6.15	24.75	40	11	4 1/2	6.15	26.15	45	11	4 1/2	6.20
20	33309	22.00	35	11	4 1/2	6.20	23.35	35	11	4 1/2	6.20	23.40	40	11	4 1/2	6.55	26.85	44	11	4 1/2	6.55	28.25	48	11	4 1/2	6.60
22	39612	24.10	38	11	4 1/2	6.60	25.45	38	11	4 1/2	6.70	27.60	47	11	4 1/2	6.85	28.95	47	11	4 1/2	6.85	32.45	53	11	4 1/2	7.00
24	39613	26.20	41	11	4 1/2	7.00	27.55	42	11	4 1/2	7.10	29.70	50	11	4 1/2	7.25	35.25	53	11	4 1/2	7.25	38.75	59	11	4 1/2	7.40
26	39614	28.30	44	11	4 1/2	7.35	29.65	46	11	4 1/2	7.50	31.80	53	11	4 1/2	7.60	37.35	56	11	4 1/2	7.60	40.85	62	11	4 1/2	7.75
28	39615	30.40	47	11	4 1/2	7.70	31.75	49	11	4 1/2	7.90	33.90	56	11	4 1/2	7.95	39.45	59	11	4 1/2	7.95	42.95	65	11	4 1/2	8.10
30	39616	32.50	51	11	4 1/2	8.05	33.85	52	11	4 1/2	8.30	36.00	59	11	4 1/2	8.30	41.55	62	11	4 1/2	8.30	45.05	68	11	4 1/2	8.45

THREE-WIRE BRANCHES

2	33382	\$4.15	8	11	4 1/2	\$2.10	\$5.35	10	11	4 1/2	\$2.10	\$5.25	12	11	4 1/2	\$2.40	\$6.45	14	11	4 1/2	\$2.40	\$7.55	16	11	4 1/2	\$2.60
4	33383	7.30	13	11	4 1/2	2.60	8.50	14	11	4 1/2	2.60	8.40	17	11	4 1/2	2.90	9.90	19	11	4 1/2	2.90	11.00	22	11	4 1/2	3.10
6	33384	10.45	18	11	4 1/2	3.10	11.65	19	11	4 1/2	3.10	11.85	23	11	4 1/2	3.40	13.05	24	11	4 1/2	3.40	14.15	27	11	4 1/2	3.60
8	33385	13.60	23	11	4 1/2	3.60	14.80	24	11	4 1/2	3.60	15.00	28	11	4 1/2	3.90	18.30	32	11	4 1/2	3.90	19.40	29	11	4 1/2	4.10
10	33386	16.75	28	11	4 1/2	4.10	18.10	29	11	4 1/2	4.10	18.15	33	11	4 1/2	4.40	21.45	37	11	4 1/2	4.40	22.55	39	11	4 1/2	4.60

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

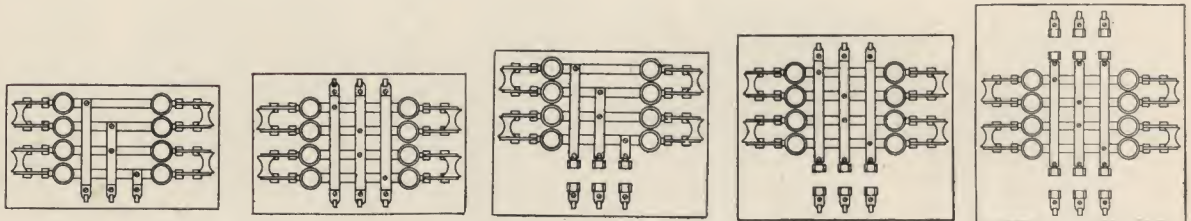
Branches, 30 Amp. Mains, 6 Amps. per circuit for three branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS
ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	33324	\$4.60	7	15	4½	\$2.20	\$5.80	7	15	4½	\$2.20	\$5.70	11	15	4½	\$2.40	\$6.90	11	15	4½	\$2.40	\$8.00	16	15	4½	\$2.55
4	33325	8.20	10	15	4½	2.70	9.40	10	15	4½	2.70	9.30	14	15	4½	2.80	10.50	14	15	4½	2.90	11.60	19	15	4½	3.05
6	33326	11.80	13	15	4½	3.20	13.00	13	15	4½	3.20	12.90	17	15	4½	3.40	14.10	17	15	4½	3.40	15.20	22	15	4½	3.55
8	33327	15.40	16	15	4½	3.70	16.60	16	15	4½	3.70	16.50	20	15	4½	3.90	18.00	22	15	4½	3.90	19.10	27	15	4½	4.05
10	33328	19.00	19	15	4½	4.20	20.20	19	15	4½	4.20	20.10	23	15	4½	4.40	21.60	25	15	4½	4.40	22.70	30	15	4½	4.55
12	33329	22.60	22	15	4½	4.70	23.80	22	15	4½	4.70	24.00	28	15	4½	4.85	25.20	28	15	4½	4.85	26.60	33	15	4½	5.00
14	33330	26.20	25	15	4½	5.15	27.40	25	15	4½	5.15	27.60	31	15	4½	5.25	30.90	31	15	4½	5.25	32.30	36	15	4½	5.40
16	33331	29.80	28	15	4½	5.55	31.00	29	15	4½	5.55	31.20	34	15	4½	5.65	34.50	37	15	4½	5.65	35.90	42	15	4½	5.80
18	33332	33.40	32	15	4½	6.00	34.75	32	15	4½	6.00	34.80	37	15	4½	6.05	38.25	40	15	4½	6.05	39.65	45	15	4½	6.20
20	33333	37.00	35	15	4½	6.40	38.35	35	15	4½	6.40	38.40	40	15	4½	6.45	41.85	44	15	4½	6.45	43.25	48	15	4½	6.60
22	39627	40.60	38	15	4½	6.80	41.95	38	15	4½	6.80	44.10	47	15	4½	6.85	45.45	47	15	4½	6.85	48.95	53	15	4½	7.00
24	39628	44.20	41	15	4½	7.20	45.55	42	15	4½	7.20	47.70	50	15	4½	7.25	53.25	53	15	4½	7.25	56.75	59	15	4½	7.40
26	39629	47.80	44	15	4½	7.55	49.15	46	15	4½	7.55	51.30	53	15	4½	7.60	56.85	56	15	4½	7.60	60.35	62	15	4½	7.75
28	39630	51.40	47	15	4½	7.90	52.75	49	15	4½	7.90	54.90	56	15	4½	7.95	60.45	59	15	4½	7.95	63.95	65	15	4½	8.10
30	39631	55.00	51	15	4½	8.25	56.35	52	15	4½	8.25	58.50	59	15	4½	8.30	64.05	62	15	4½	8.30	67.55	68	15	4½	8.45

THREE-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	L	W	D	Extra for Slate Frame	List Price	L	W	D	Extra for Slate Frame	List Price	L	W	D	Extra for Slate Frame	List Price	L	W	D	Extra for Slate Frame	List Price	L	W	D	Extra for Slate Frame
2	33391	\$6.40	8	15	4½	\$2.40	\$7.60	10	15	4½	\$2.40	\$7.50	12	15	4½	\$2.55	\$8.70	14	15	4½	\$2.55	\$9.80	16	15	4½	\$2.75
4	33392	11.80	13	15	4½	2.90	13.00	14	15	4½	2.90	12.90	17	15	4½	3.05	14.40	19	15	4½	3.05	15.50	22	15	4½	3.25
6	33393	17.20	18	15	4½	3.40	18.40	19	15	4½	3.40	18.60	23	15	4½	3.55	19.80	24	15	4½	3.55	20.90	27	15	4½	3.75
8	33394	22.60	23	15	4½	3.90	23.80	24	15	4½	3.90	24.00	28	15	4½	4.05	27.30	32	15	4½	4.05	28.40	34	15	4½	4.25
10	33395	28.00	28	15	4½	4.40	29.35	29	15	4½	4.40	29.40	33	15	4½	4.55	32.70	37	15	4½	4.55	33.80	39	15	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

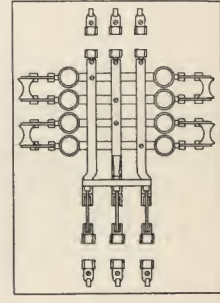
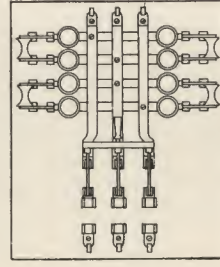
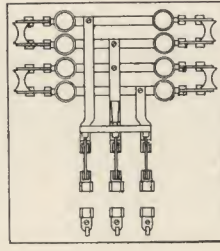
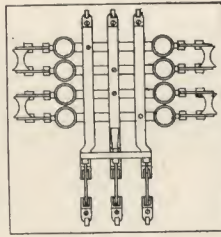
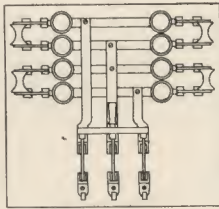
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	33364	\$7.40	14	15	4½	\$2.50	\$8.60	14	15	4½	\$2.50	\$8.50	14	15	4½	\$2.50	\$9.70	14	15	4½	\$2.50	\$10.80	18	15	4½	\$2.80
4	33365	11.00	17	15	4½	3.00	12.20	17	15	4½	3.00	12.10	17	15	4½	3.00	13.30	17	15	4½	3.00	14.40	22	15	4½	3.30
6	33366	14.60	20	15	4½	3.50	15.80	20	15	4½	3.50	15.70	20	15	4½	3.50	16.90	20	15	4½	3.50	18.00	25	15	4½	3.80
8	33367	18.20	23	15	4½	4.00	19.40	25	15	4½	4.00	19.30	23	15	4½	4.00	20.80	25	15	4½	4.00	21.90	30	15	4½	4.30
10	33368	21.80	26	15	4½	4.50	23.00	28	15	4½	4.50	22.90	26	15	4½	4.50	24.40	28	15	4½	4.50	25.50	33	15	4½	4.80
12	33369	26.65	31	15	4½	4.95	27.85	31	15	4½	4.95	28.05	31	15	4½	4.95	29.25	31	15	4½	4.95	30.65	36	15	4½	5.25
14	33370	30.25	34	15	4½	5.35	31.45	34	15	4½	5.35	31.65	34	15	4½	5.35	34.95	34	15	4½	5.35	36.35	39	15	4½	5.65
16	33371	33.85	37	15	4½	5.75	35.05	39	15	4½	5.75	35.25	37	15	4½	5.75	38.55	41	15	4½	5.75	39.95	45	15	4½	6.05
18	33372	37.45	40	15	4½	6.15	38.80	42	15	4½	6.15	38.85	40	15	4½	6.15	42.30	44	15	4½	6.15	43.70	49	15	4½	6.45
20	33373	41.05	44	15	4½	6.55	42.40	45	15	4½	6.55	42.45	44	15	4½	6.55	45.90	47	15	4½	6.55	47.30	52	15	4½	6.85
22	39658	46.35	48	15	4½	6.95	47.70	49	15	4½	6.95	49.85	50	15	4½	6.95	51.20	50	15	4½	6.95	54.70	56	15	4½	7.25
24	39659	49.95	51	15	4½	7.35	51.30	56	15	4½	7.35	53.45	53	15	4½	7.35	59.00	58	15	4½	7.35	62.50	64	15	4½	7.65
26	39660	53.55	55	15	4½	7.70	54.90	59	15	4½	7.70	57.05	56	15	4½	7.70	62.60	61	15	4½	7.70	66.10	67	15	4½	8.00
28	39661	57.15	58	15	4½	8.05	58.50	62	15	4½	8.05	60.65	59	15	4½	8.05	66.20	64	15	4½	8.05	69.70	70	15	4½	8.35
30	39662	60.75	61	15	4½	8.40	62.10	65	15	4½	8.40	64.25	63	15	4½	8.40	69.80	67	15	4½	8.40	73.30	73	15	4½	8.70

THREE-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	33405	\$9.20	15	15	4½	\$2.75	\$10.40	16	15	4½	\$2.75	\$10.30	15	15	4½	\$2.75	\$11.50	16	15	4½	\$2.75	\$12.60	19	15	4½	\$2.90
4	33406	14.60	20	15	4½	3.25	15.80	23	15	4½	3.25	15.70	20	15	4½	3.25	17.20	23	15	4½	3.25	18.30	25	15	4½	3.40
6	33407	21.25	26	15	4½	3.75	22.45	27	15	4½	3.75	22.65	26	15	4½	3.75	23.85	27	15	4½	3.75	24.95	30	15	4½	3.90
8	33408	26.65	31	15	4½	4.25	27.85	32	15	4½	4.25	28.05	31	15	4½	4.25	31.35	35	15	4½	4.25	32.45	38	15	4½	4.40
10	33409	32.05	36	15	4½	4.75	33.40	38	15	4½	4.75	33.45	36	15	4½	4.75	36.75	40	15	4½	4.75	37.85	42	15	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

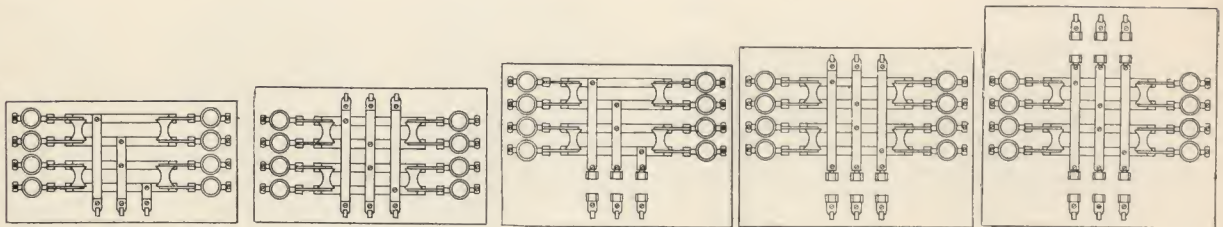
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES

WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62874	\$4.60	7	16	4½	\$2.20	\$5.80	7	16	4½	\$2.20	\$5.70	11	16	4½	\$2.40	\$6.90	11	16	4½	\$2.40	\$8.00	16	16	4½	\$2.55
4	62875	8.20	10	16	4½	2.70	9.40	10	16	4½	2.70	9.30	14	16	4½	2.90	10.50	14	16	4½	2.90	11.60	19	16	4½	3.05
6	62876	11.80	13	16	4½	3.20	13.00	13	16	4½	3.20	12.90	17	16	4½	3.40	14.10	17	16	4½	3.40	15.20	22	16	4½	3.55
8	62877	15.40	16	16	4½	3.70	16.60	16	16	4½	3.70	16.50	20	16	4½	3.90	18.00	22	16	4½	3.90	19.10	27	16	4½	4.05
10	62878	19.00	19	16	4½	4.20	20.20	19	16	4½	4.20	20.10	23	16	4½	4.40	21.60	25	16	4½	4.40	22.70	30	16	4½	4.55
12	62879	22.60	22	16	4½	4.70	23.80	22	16	4½	4.70	24.00	28	16	4½	4.85	25.20	28	16	4½	4.85	26.60	33	16	4½	5.00
14	62880	26.20	25	16	4½	5.15	27.40	25	16	4½	5.15	27.60	31	16	4½	5.25	30.90	31	16	4½	5.25	32.30	36	16	4½	5.40
16	62881	29.80	28	16	4½	5.55	31.00	29	16	4½	5.55	31.20	34	16	4½	5.65	34.50	37	16	4½	5.65	35.90	42	16	4½	5.80
18	62882	33.40	32	16	4½	6.00	34.75	32	16	4½	6.00	34.80	37	16	4½	6.05	38.25	40	16	4½	6.05	39.65	45	16	4½	6.20
20	62883	37.00	35	16	4½	6.40	38.35	35	16	4½	6.40	38.40	40	16	4½	6.45	41.85	44	16	4½	6.45	43.25	48	16	4½	6.60
22	62884	40.60	38	16	4½	6.80	41.95	38	16	4½	6.80	44.10	47	16	4½	6.85	45.45	47	16	4½	6.85	48.95	53	16	4½	7.00
24	62885	44.20	41	16	4½	7.20	45.55	42	16	4½	7.20	47.70	50	16	4½	7.25	53.25	53	16	4½	7.25	56.75	59	16	4½	7.40
26	62886	47.80	44	16	4½	7.55	49.15	46	16	4½	7.55	51.30	53	16	4½	7.60	56.85	56	16	4½	7.60	60.35	62	16	4½	7.75
28	62887	51.40	47	16	4½	7.90	52.75	49	16	4½	7.90	54.90	56	16	4½	7.95	60.45	59	16	4½	7.95	63.95	65	16	4½	8.10
30	62888	55.00	51	16	4½	8.25	56.35	52	16	4½	8.25	58.50	59	16	4½	8.30	64.05	62	16	4½	8.30	67.55	68	16	4½	8.45

THREE-WIRE BRANCHES

2	62889	\$6.40	8	16	4½	\$2.40	\$7.60	10	16	4½	\$2.40	\$7.50	12	16	4½	\$2.55	\$8.70	14	16	4½	\$2.55	\$9.80	16	16	4½	\$2.75
4	62890	11.80	13	16	4½	2.90	13.00	14	16	4½	2.90	12.90	17	16	4½	3.05	14.40	19	16	4½	3.05	15.50	22	16	4½	3.25
6	62891	17.20	18	16	4½	3.40	18.40	19	16	4½	3.40	18.60	23	16	4½	3.55	19.80	24	16	4½	3.55	20.90	27	16	4½	3.75
8	62892	22.60	23	16	4½	3.90	27.80	24	16	4½	3.90	24.00	28	16	4½	4.05	27.30	32	16	4½	4.05	28.40	34	16	4½	4.25
10	62893	28.00	28	16	4½	4.40	29.35	29	16	4½	4.40	29.40	33	16	4½	4.55	32.70	37	16	4½	4.55	33.80	39	16	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

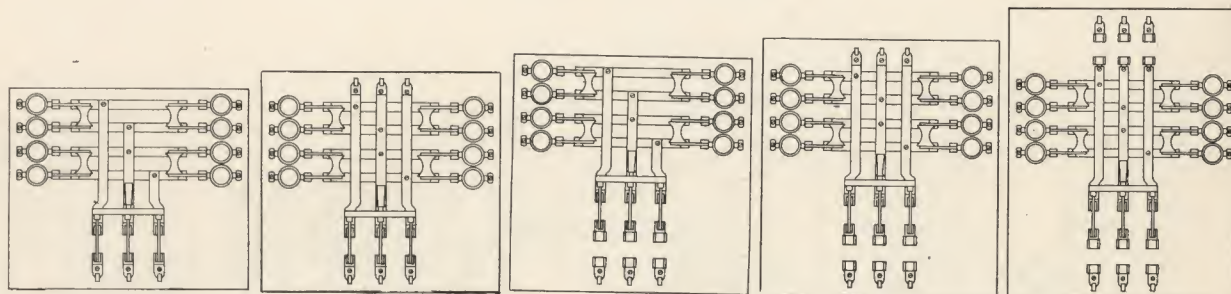
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel. The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel. The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITH MAIN SWITCH

TWO-WIRE BRANCHES

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

		FORM F-1																FORM F-2								
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame					
			L	W	D			L	W	D			L	W	D			L	W	D						
2	62894	\$7.40	14	16	4 1/2	\$2.50	\$8.60	14	16	4 1/2	\$2.50	\$8.50	14	16	4 1/2	\$2.50	\$9.70	14	16	4 1/2	\$2.50	\$10.80	18	16	4 1/2	\$2.80
4	62895	11.00	17	16	4 1/2	3.00	12.20	17	16	4 1/2	3.00	12.10	17	16	4 1/2	3.00	13.30	17	16	4 1/2	3.00	14.40	22	16	4 1/2	3.30
6	62896	14.60	20	16	4 1/2	3.50	15.80	20	16	4 1/2	3.50	15.70	20	16	4 1/2	3.50	16.90	20	16	4 1/2	3.50	18.00	25	16	4 1/2	3.80
8	62897	18.20	23	16	4 1/2	4.00	19.40	25	16	4 1/2	4.00	19.30	23	16	4 1/2	4.00	20.80	25	16	4 1/2	4.00	21.90	30	16	4 1/2	4.30
10	62898	21.80	26	16	4 1/2	4.50	23.00	28	16	4 1/2	4.50	22.90	26	16	4 1/2	4.50	24.40	28	16	4 1/2	4.50	25.50	33	16	4 1/2	4.80
12	62899	26.65	31	16	4 1/2	4.95	27.85	31	16	4 1/2	4.95	28.05	31	16	4 1/2	4.95	29.25	31	16	4 1/2	4.95	30.65	36	16	4 1/2	5.25
14	62900	30.25	34	16	4 1/2	5.35	31.45	34	16	4 1/2	5.35	31.65	34	16	4 1/2	5.35	34.95	34	16	4 1/2	5.35	36.35	39	16	4 1/2	5.65
16	62901	33.85	37	16	4 1/2	5.75	35.05	39	16	4 1/2	5.75	35.25	37	16	4 1/2	5.75	38.55	41	16	4 1/2	5.75	39.95	45	16	4 1/2	6.05
18	62902	37.45	40	16	4 1/2	6.15	38.80	42	16	4 1/2	6.15	38.85	40	16	4 1/2	6.15	42.30	44	16	4 1/2	6.15	43.70	49	16	4 1/2	6.45
20	62903	41.05	44	16	4 1/2	6.55	42.40	45	16	4 1/2	6.55	42.45	44	16	4 1/2	6.55	45.90	47	16	4 1/2	6.55	47.30	52	16	4 1/2	6.85
22	62904	46.35	48	16	4 1/2	6.95	47.70	49	16	4 1/2	6.95	49.85	50	16	4 1/2	6.95	51.20	50	16	4 1/2	6.95	54.70	56	16	4 1/2	7.25
24	62905	49.95	51	16	4 1/2	7.35	51.30	56	16	4 1/2	7.35	53.45	53	16	4 1/2	7.35	59.00	58	16	4 1/2	7.35	62.50	64	16	4 1/2	7.65
26	62906	53.55	55	16	4 1/2	7.70	54.90	59	16	4 1/2	7.70	57.05	56	16	4 1/2	7.70	62.60	61	16	4 1/2	7.70	65.10	67	16	4 1/2	8.00
28	62907	57.15	58	16	4 1/2	8.05	58.50	62	16	4 1/2	8.05	60.65	59	16	4 1/2	8.05	66.20	64	16	4 1/2	8.05	69.70	70	16	4 1/2	8.35
30	62908	60.75	61	16	4 1/2	8.40	62.10	65	16	4 1/2	8.40	64.25	63	16	4 1/2	8.40	69.80	67	16	4 1/2	8.40	73.30	73	16	4 1/2	8.70

THREE-WIRE BRANCHES

2	62909	\$9.20	15	16	4 1/2	\$2.75	\$10.40	16	16	4 1/2	\$2.75	\$10.30	15	16	4 1/2	\$2.75	\$11.50	16	16	4 1/2	\$2.75	\$12.60	19	16	4 1/2	\$2.90
4	62910	14.60	20	16	4 1/2	3.25	15.80	23	16	4 1/2	3.25	15.70	20	16	4 1/2	3.25	17.20	23	16	4 1/2	3.25	18.30	25	16	4 1/2	3.40
6	62911	21.25	26	16	4 1/2	3.75	22.45	27	16	4 1/2	3.75	22.65	26	16	4 1/2	3.75	23.85	27	16	4 1/2	3.75	24.95	30	16	4 1/2	3.90
8	62912	26.65	31	16	4 1/2	4.25	27.85	32	16	4 1/2	4.25	28.05	31	16	4 1/2	4.25	31.35	35	16	4 1/2	4.25	32.45	38	16	4 1/2	4.40
10	62913	32.05	36	16	4 1/2	4.75	33.40	38	16	4 1/2	4.75	33.45	36	16	4 1/2	4.75	36.75	40	16	4 1/2	4.75	37.85	42	16	4 1/2	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES —

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

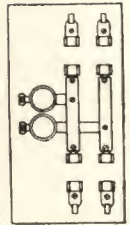
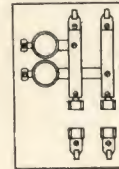
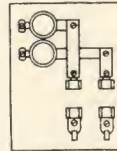
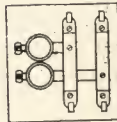
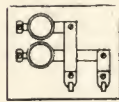
Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS **ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS** **TWO-WIRE MAINS, SINGLE BRANCH, WITHOUT CIRCUIT SWITCHES** **WITHOUT MAIN SWITCH**



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	33000	\$3.10	10	7	4½	\$2.00	\$3.90	10	7	4½	\$2.00	\$3.85	14	7	4½	\$2.25	\$4.65	14	7	4½	\$2.25	\$5.40	17	7	4½	\$2.35
4	33001	5.20	16	7	4½	2.50	6.00	16	7	4½	2.50	5.95	20	7	4½	2.75	7.00	22	7	4½	2.75	7.75	24	7	4½	2.85
6	33002	7.30	22	7	4½	3.00	8.10	23	7	4½	3.00	8.30	28	7	4½	3.25	9.10	28	7	4½	3.25	9.85	31	7	4½	3.35
8	33003	9.40	29	7	4½	3.50	10.20	29	7	4½	3.50	10.40	34	7	4½	3.75	12.70	38	7	4½	3.75	13.45	40	7	4½	3.85
10	33004	11.50	35	7	4½	4.00	12.45	35	7	4½	4.00	12.50	40	7	4½	4.25	14.80	44	7	4½	4.25	15.55	46	7	4½	4.35
250 VOLTS																										
2	33005	\$3.60	12	8	4½	\$2.20	\$4.40	12	8	4½	\$2.20	\$4.35	16	8	4½	\$2.35	\$5.15	16	8	4½	\$2.35	\$5.90	20	8	4½	\$2.60
4	33006	6.20	20	8	4½	2.70	7.00	21	8	4½	2.70	6.95	23	8	4½	2.85	8.00	26	8	4½	2.85	8.75	30	8	4½	3.10
6	33007	8.80	28	8	4½	3.20	9.60	29	8	4½	3.20	9.80	33	8	4½	3.35	10.60	34	8	4½	3.35	11.35	38	8	4½	3.60
8	33008	11.40	36	8	4½	3.70	12.20	37	8	4½	3.70	12.50	41	8	4½	3.85	14.70	45	8	4½	3.85	15.45	48	8	4½	4.10
10	33009	14.00	43	8	4½	4.20	14.95	45	8	4½	4.20	15.00	49	8	4½	4.35	17.30	52	8	4½	4.35	18.05	56	8	4½	4.60

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

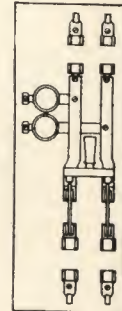
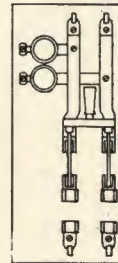
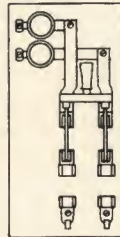
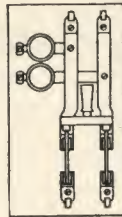
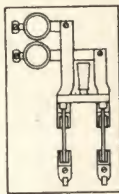
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

TWO-WIRE MAINS, SINGLE BRANCH, WITHOUT CIRCUIT SWITCHES

WITH MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D	
2	33060	\$5.10	17	7	4½	\$2.30	\$5.90	17	7	4½	\$2.30	\$5.85	17	7	4½	\$2.30	\$6.65	17	7	4½	\$2.30
4	33061	7.20	23	7	4½	2.80	8.00	25	7	4½	2.80	7.95	25	7	4½	2.80	9.00	25	7	4½	2.80
6	33062	10.20	31	7	4½	3.30	11.00	31	7	4½	3.30	11.20	31	7	4½	3.30	12.00	31	7	4½	3.30
8	33063	12.30	37	7	4½	3.80	13.10	39	7	4½	3.80	13.30	37	7	4½	3.80	15.60	41	7	4½	3.80
10	33064	14.40	44	7	4½	4.30	15.35	46	7	4½	4.30	15.40	44	7	4½	4.30	17.70	47	7	4½	4.30

250 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D	
2	33065	\$5.60	20	8	4½	\$2.40	\$6.40	20	8	4½	\$2.40	\$6.35	20	8	4½	\$2.40	\$7.15	20	8	4½	\$2.40
4	33066	8.20	28	8	4½	2.90	9.00	31	8	4½	2.90	8.95	27	8	4½	2.90	10.00	30	8	4½	2.90
6	33067	11.70	38	8	4½	3.40	12.50	38	8	4½	3.40	12.70	38	8	4½	3.40	13.50	38	8	4½	3.40
8	33068	14.30	45	8	4½	3.90	15.10	48	8	4½	3.90	15.30	45	8	4½	3.90	17.60	49	8	4½	3.90
10	33069	16.90	53	8	4½	4.40	17.85	56	8	4½	4.40	17.90	53	8	4½	4.40	20.20	57	8	4½	4.40

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

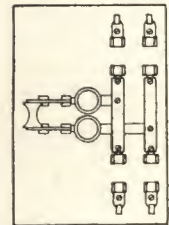
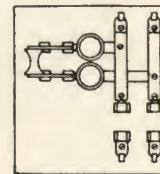
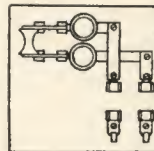
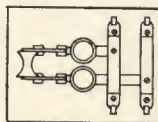
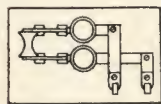
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



125 VOLTS																													
FORM L						FORM L-2						FORM F						FORM FL						FORM F-2					
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame			
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D				
2	33030	\$4.40	10	9	4½	\$2.10	\$5.20	10	9	4½	\$2.10	\$5.15	14	9	4½	\$2.30	\$5.95	14	9	4½	\$2.30	\$6.70	17	9	4½	\$2.45			
4	33031	7.80	16	9	4½	2.60	8.60	16	9	4½	2.60	8.55	20	9	4½	2.80	9.60	22	9	4½	2.80	10.35	24	9	4½	2.95			
6	33032	11.20	22	9	4½	3.10	12.00	23	9	4½	3.10	12.20	28	9	4½	3.30	13.00	28	9	4½	3.30	13.75	31	9	4½	3.45			
8	33033	14.60	29	9	4½	3.60	15.40	29	9	4½	3.60	15.60	34	9	4½	3.80	17.90	38	9	4½	3.80	18.65	40	9	4½	3.95			
10	33034	18.00	35	9	4½	4.10	18.95	35	9	4½	4.10	19.00	40	9	4½	4.30	21.30	44	9	4½	4.30	22.05	46	9	4½	4.45			

250 VOLTS																										
2	33035	\$5.00	12	11	5½	\$2.30	\$5.80	12	11	5½	\$2.30	\$5.75	16	11	5½	\$2.45	\$6.55	16	11	5½	\$2.45	\$7.30	20	11	5½	\$2.65
4	33036	9.00	20	11	5½	2.80	9.80	21	11	5½	2.80	9.75	23	11	5½	2.95	10.80	26	11	5½	2.95	11.55	30	11	5½	2.95
6	33037	13.00	28	11	5½	3.30	13.80	29	11	5½	3.30	14.00	33	11	5½	3.45	14.80	34	11	5½	3.45	15.55	38	11	5½	3.45
8	33038	17.00	36	11	5½	3.80	17.80	37	11	5½	3.80	18.00	41	11	5½	3.95	20.30	45	11	5½	3.95	21.05	48	11	5½	3.95
10	33039	21.00	43	11	5½	4.30	21.95	45	11	5½	4.30	22.00	49	11	5½	4.35	24.30	52	11	5½	4.45	25.05	56	11	5½	4.45

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

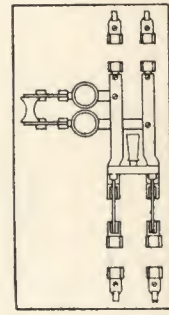
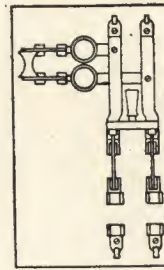
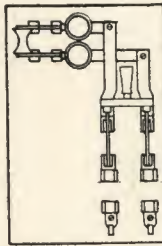
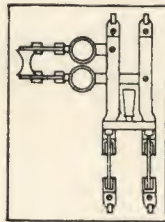
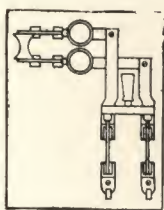
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITH MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE				Extra for Slate for Frame	List Price	SIZE				Extra for Slate for Frame	List Price	SIZE				Extra for Slate for Frame	List Price	SIZE				Extra for Slate for Frame						
			L	W	D				L	W	D				L	W	D				L	W	D								
2	33082	\$6.40	17	9	4½		\$2.40	\$7.20	17	9	4½		\$2.40	\$7.15	17	9	4½		\$2.40	\$7.95	17	9	4½		\$2.40	\$8.70	19	9	4½		\$2.70
4	33083	9.80	23	9	4½		2.90	10.60	25	9	4½		2.90	10.55	23	9	4½		2.90	11.60	25	9	4½		2.90	12.35	27	9	4½		3.20
6	33084	14.10	31	9	4½		3.40	14.90	31	9	4½		3.40	15.10	31	9	4½		3.40	15.90	31	9	4½		3.40	16.65	34	9	4½		3.70
8	33085	17.50	37	9	4½		3.90	18.30	39	9	4½		3.90	18.50	37	9	4½		3.90	20.80	41	9	4½		3.90	21.55	43	9	4½		4.20
10	33086	20.90	44	9	4½		4.40	21.85	46	9	4½		4.40	21.90	44	9	4½		4.40	24.20	47	9	4½		4.40	24.95	49	9	4½		4.70

250 VOLTS

2	33087	\$7.00	20	11	5½	\$2.65	\$7.80	20	11	5½	\$2.65	\$7.75	20	11	5½	\$2.65	\$8.55	20	11	5½	\$2.65	\$9.30	24	11	5½	\$2.80	\$9.30	24	11	5½	\$2.80	\$10.10
4	33088	11.00	28	11	5½	3.15	11.80	31	11	5½	3.15	11.75	27	11	5½	3.15	12.80	30	11	5½	3.15	13.55	34	11	5½	3.30	13.55	34	11	5½	3.30	15.35
6	33089	15.90	38	11	5½	3.65	16.70	38	11	5½	3.65	16.90	38	11	5½	3.65	17.70	38	11	5½	3.65	18.45	42	11	5½	3.80	18.45	42	11	5½	3.80	20.25
8	33090	19.90	45	11	5½	4.15	20.70	48	11	5½	4.15	20.90	45	11	5½	4.15	23.20	49	11	5½	4.15	23.95	53	11	5½	4.30	23.95	53	11	5½	4.30	26.15
10	33091	23.90	53	11	5½	4.65	24.85	56	11	5½	4.65	24.90	53	11	5½	4.65	27.20	57	11	5½	4.65	27.95	60	11	5½	4.80	27.95	60	11	5½	4.80	30.35

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

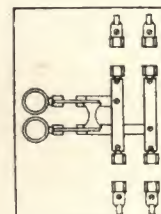
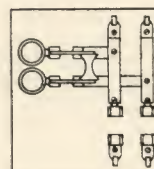
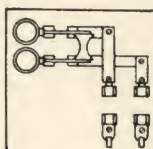
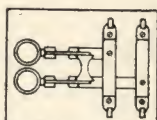
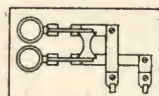
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES

WITHOUT MAIN SWITCH



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2					
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D		
2	62740	\$4.40	10	10	4½	\$2.10	\$5.20	10	10	4½	\$2.10	\$5.15	14	10	4½	\$2.30	\$5.95	14	10	4½	\$2.30	\$6.70	17	10	4½	\$2.45	
4	62741	7.80	16	10	4½	2.60	8.60	16	10	4½	2.60	8.55	20	10	4½	2.80	9.60	22	10	4½	2.80	10.35	24	10	4½	2.95	
6	62742	11.20	22	10	4½	3.10	12.00	23	10	4½	3.10	12.20	28	10	4½	3.30	13.00	28	10	4½	3.30	13.75	31	10	4½	3.45	
8	62743	14.60	29	10	4½	3.60	15.40	29	10	4½	3.60	15.60	34	10	4½	3.80	17.90	38	10	4½	3.80	18.65	40	10	4½	3.95	
10	62744	18.00	35	10	4½	4.10	18.95	35	10	4½	4.10	19.00	40	10	4½	4.30	21.30	44	10	4½	4.30	20.05	46	10	4½	4.45	
250 VOLTS																											
2	62745	\$5.00	12	11	5½	\$2.30	\$5.80	12	11	5½	\$2.30	\$5.75	16	11	5½	\$2.45	\$6.55	16	11	5½	\$2.45	\$7.30	20	11	5½	\$2.65	
4	62746	9.00	20	11	5½	2.80	9.80	21	11	5½	2.80	9.75	23	11	5½	2.95	10.80	26	11	5½	2.95	11.55	30	11	5½	2.95	
6	62747	13.00	28	11	5½	3.30	13.80	29	11	5½	3.30	14.00	33	11	5½	3.45	14.80	34	11	5½	3.45	15.55	38	11	5½	3.45	
8	62748	17.00	36	11	5½	3.80	17.80	37	11	5½	3.80	18.00	41	11	5½	3.95	20.30	45	11	5½	3.95	21.05	48	11	5½	3.95	
10	62749	21.00	43	11	5½	4.30	21.95	45	11	5½	4.30	22.00	49	11	5½	4.35	24.30	52	11	5½	4.35	25.05	56	11	5½	4.45	

250 VOLTS

2	62745	\$5.00	12	11	5½	\$2.30	\$5.80	12	11	5½	\$2.30	\$5.75	16	11	5½	\$2.45	\$6.55	16	11	5½	\$2.45	\$7.30	20	11	5½	\$2.65	\$7.30	20	11	5½	\$2.65
4	62746	9.00	20	11	5½	2.80	9.80	21	11	5½	2.80	9.75	23	11	5½	2.95	10.80	26	11	5½	2.95	11.55	30	11	5½	2.95	11.55	30	11	5½	2.95
6	62747	13.00	28	11	5½	3.30	13.80	29	11	5½	3.30	14.00	33	11	5½	3.45	14.80	34	11	5½	3.45	15.55	38	11	5½	3.45	15.55	38	11	5½	3.45
8	62748	17.00	36	11	5½	3.80	17.80	37	11	5½	3.80	18.00	41	11	5½	3.95	20.30	45	11	5½	3.95	21.05	48	11	5½	3.95	21.05	48	11	5½	3.95
10	62749	21.00	43	11	5½	4.30	21.95	45	11	5½	4.30	22.00	49	11	5½	4.35	24.30	52	11	5½	4.35	25.05	56	11	5½	4.35	25.05	56	11	5½	4.45

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel. The depth inside is given in column "D" above.

Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel. The depth inside is given in column "D" above.

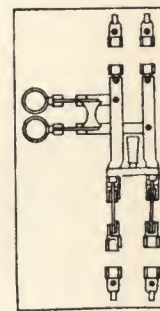
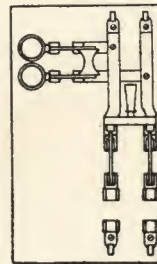
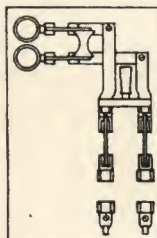
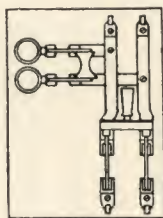
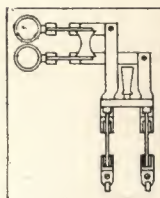
NOTE:—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES

WITH MAIN SWITCH



125 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62750	\$6.40	17	10	4½	\$2.40	\$7.20	17	10	4½	\$2.40	\$7.15	17	10	4½	\$2.40	\$7.95	17	10	4½	\$2.40	\$8.70	19	10	4½	\$2.70
4	62751	9.80	23	10	4½	2.90	10.60	25	10	4½	2.90	10.55	23	10	4½	2.90	11.60	25	10	4½	2.90	12.35	27	10	4½	3.20
6	62752	14.10	31	10	4½	3.40	14.90	31	10	4½	3.40	15.10	31	10	4½	3.40	15.90	31	10	4½	3.40	16.65	34	10	4½	3.70
8	62753	17.50	37	10	4½	3.90	18.30	39	10	4½	3.90	18.50	37	10	4½	3.90	20.80	41	10	4½	3.90	21.55	43	10	4½	4.20
10	62754	20.90	44	10	4½	4.40	21.85	46	10	4½	4.40	21.90	44	10	4½	4.40	24.20	47	10	4½	4.40	24.95	49	10	4½	4.70

250 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62755	\$7.00	20	11	5½	\$2.65	\$7.80	20	11	5½	\$2.65	\$7.75	20	11	5½	\$2.65	\$8.55	20	11	5½	\$2.65	\$9.30	24	11	4½	\$2.80
4	62756	11.00	28	11	5½	3.15	11.80	31	11	5½	3.15	11.75	27	11	5½	3.15	12.80	30	11	5½	3.15	13.55	34	11	4½	3.30
6	62757	15.90	38	11	5½	3.65	16.70	38	11	5½	3.65	16.90	38	11	5½	3.65	17.70	38	11	5½	3.65	18.45	42	11	4½	3.80
8	62758	19.90	45	11	5½	4.15	20.70	48	11	5½	4.15	20.90	45	11	5½	4.15	23.20	49	11	5½	4.15	23.95	53	11	4½	4.30
10	62759	23.90	53	11	5½	4.65	24.85	56	11	5½	4.65	24.90	53	11	5½	4.65	27.20	57	11	5½	4.65	27.95	60	11	4½	4.80

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

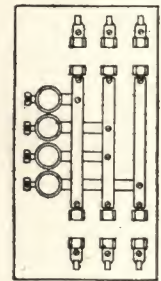
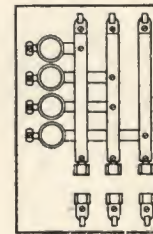
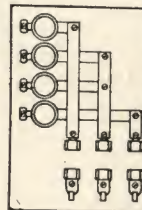
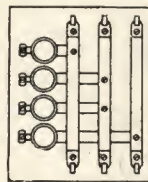
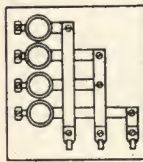
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62814	\$3.25	9	9	4½	\$2.10	\$4.45	10	9	4½	\$2.10	\$4.35	14	9	4½	\$2.35	\$5.55	14	9	4½	\$2.35	\$6.65	18	9	4½	\$2.45
4	62815	5.50	16	9	4½	2.60	6.70	16	9	4½	2.60	6.60	20	9	4½	2.85	7.80	20	9	4½	2.85	8.90	24	9	4½	2.95
6	62816	7.75	22	9	4½	3.10	8.95	23	9	4½	3.10	8.85	26	9	4½	3.35	10.05	27	9	4½	3.35	11.15	30	9	4½	3.45
8	62817	10.00	28	9	4½	3.60	11.20	29	9	4½	3.60	11.10	33	9	4½	3.85	12.60	35	9	4½	3.85	13.70	38	9	4½	3.95
10	62818	12.25	34	9	4½	4.10	13.45	35	9	4½	4.10	13.35	39	9	4½	4.35	14.85	41	9	4½	4.35	15.95	44	9	4½	4.45

THREE-WIRE BRANCHES

2	62819	\$4.40	13	9	4½	\$2.30	\$5.60	13	9	4½	\$2.30	\$5.50	17	9	4½	\$2.45	\$6.70	17	9	4½	\$2.45	\$7.80	20	9	4½	\$2.70
4	62820	7.80	22	9	4½	2.80	9.00	23	9	4½	2.80	8.90	26	9	4½	2.95	10.40	28	9	4½	2.95	11.50	31	9	4½	3.20
6	62821	11.20	32	9	4½	3.30	12.40	32	9	4½	3.30	12.60	37	9	4½	3.45	13.80	38	9	4½	3.45	14.90	40	9	4½	3.70
8	62822	14.60	41	9	4½	3.80	15.80	41	9	4½	3.80	16.00	47	9	4½	3.95	19.30	50	9	4½	3.95	20.40	52	9	4½	4.20
10	62823	18.00	50	9	4½	4.30	19.35	51	9	4½	4.30	19.40	56	9	4½	4.45	22.70	59	9	4½	4.45	23.80	62	9	4½	4.70

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps, per circuit for three-wire branches and 3 Amps. for two-wire branches.

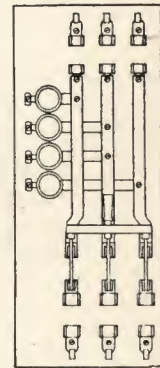
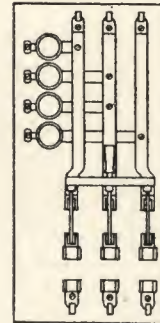
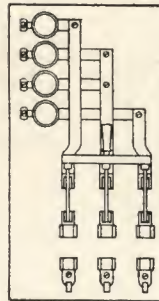
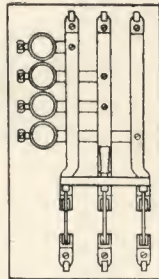
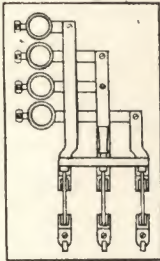
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS
THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62845	\$6.05	17	9	4½	\$2.40	\$7.25	17	9	4½	\$2.40	\$7.15	17	9	4½	\$2.40	\$8.30	17	9	4½	\$2.40	\$9.40	20	9	4½	\$2.60
4	62846	8.30	23	9	4½	2.90	9.50	23	9	4½	2.90	9.40	23	9	4½	2.90	10.60	23	9	4½	2.90	11.70	27	9	4½	3.10
6	62847	10.55	29	9	4½	3.40	11.75	29	9	4½	3.40	11.65	29	9	4½	3.40	13.15	30	9	4½	3.40	14.25	33	9	4½	3.60
8	62848	12.80	35	9	4½	3.90	14.00	38	9	4½	3.90	13.90	35	9	4½	3.90	15.40	38	9	4½	3.90	16.50	41	9	4½	4.10
10	62849	15.05	42	9	4½	4.40	16.25	44	9	4½	4.40	16.15	42	9	4½	4.40	17.65	44	9	4½	4.40	18.75	47	9	4½	4.60

THREE-WIRE BRANCHES

2	62850	\$7.20	20	9	4½	\$2.50	\$8.40	20	9	4½	\$2.50	\$8.30	20	9	4½	\$2.50	\$9.50	20	9	4½	\$2.50	\$10.60	23	9	4½	\$2.80
4	62851	10.60	29	9	4½	3.00	11.80	31	9	4½	3.00	11.70	29	9	4½	3.00	13.20	32	9	4½	3.00	14.30	34	9	4½	3.30
6	62852	15.25	40	9	4½	3.50	16.45	41	9	4½	3.50	16.65	40	9	4½	3.50	17.80	41	9	4½	3.50	18.90	43	9	4½	3.80
8	62853	18.65	50	9	4½	4.00	19.85	52	9	4½	4.00	20.05	50	9	4½	4.00	23.35	53	9	4½	4.00	24.45	56	9	4½	4.30
10	63312	22.05	59	9	4½	4.50	23.40	61	9	4½	4.50	23.45	59	9	4½	4.50	26.75	63	9	4½	4.50	27.85	65	9	4½	4.80

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

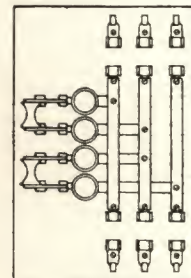
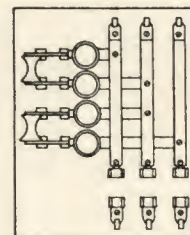
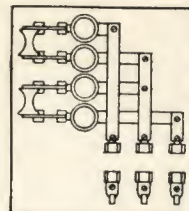
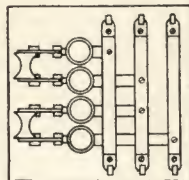
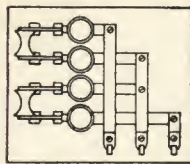
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE:—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE			List Price	SIZE			List Price	SIZE			List Price	SIZE		
			L	W	D	Extra for Slate Frame																
2	62824	\$4.75	9	11	4½	\$2.20	\$5.95	10	11	4½	\$2.20	\$5.85	14	11	4½	\$2.40	\$7.05	14	11	4½	\$2.40	\$8.15
4	62825	8.50	16	11	4½	2.70	9.70	16	11	4½	2.70	9.60	20	11	4½	2.90	10.80	20	11	4½	2.90	11.90
6	62826	12.25	22	11	4½	3.20	13.45	23	11	4½	3.20	13.35	26	11	4½	3.40	14.55	27	11	4½	3.40	15.65
8	62827	16.00	28	11	4½	3.70	17.20	29	11	4½	3.70	17.10	33	11	4½	3.90	18.60	35	11	4½	3.90	19.70
10	62828	19.70	34	11	4½	4.20	20.90	35	11	4½	4.20	20.80	39	11	4½	4.40	22.30	41	11	4½	4.40	23.40

THREE-WIRE BRANCHES

2	62829	\$6.65	13	11	4½	\$2.40	\$7.85	13	11	4½	\$2.40	\$7.75	17	11	4½	\$2.55	\$8.95	17	11	4½	\$2.55	\$10.05
4	62830	12.30	22	11	4½	2.90	13.50	23	11	4½	2.90	13.40	26	11	4½	3.05	14.90	28	11	4½	3.05	16.00
6	62831	17.85	32	11	4½	3.40	19.05	32	11	4½	3.40	19.25	37	11	4½	3.55	20.45	38	11	4½	3.55	21.55
8	62832	23.50	41	11	4½	3.90	24.70	41	11	4½	3.90	24.90	47	11	4½	4.05	28.20	50	11	4½	4.05	29.30
10	62833	29.15	50	11	4½	4.40	30.50	51	11	4½	4.40	30.55	56	11	4½	4.55	33.85	59	11	4½	4.55	34.95

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

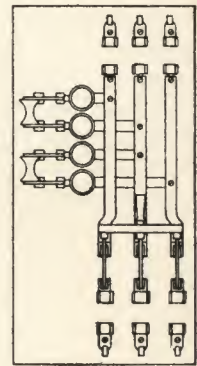
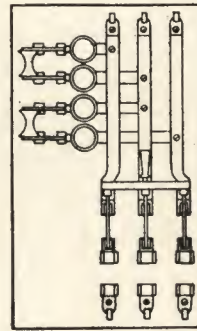
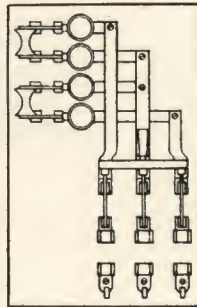
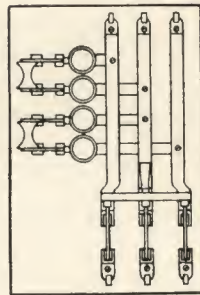
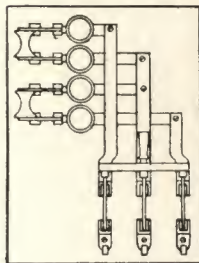
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62854	\$7.55	17	11	4½	\$2.50	\$8.75	17	11	4½	\$2.50	\$8.65	17	11	4½	\$2.50	\$9.85	17	11	4½	\$2.50	\$10.95	20	11	4½	\$2.80
4	62855	11.30	23	11	4½	3.00	12.50	23	11	4½	3.00	12.40	23	11	4½	3.00	13.60	23	11	4½	3.00	14.70	27	11	4½	3.30
6	62856	15.05	29	11	4½	3.50	16.25	29	11	4½	3.50	16.15	29	11	4½	3.50	17.35	30	11	4½	3.50	18.45	33	11	4½	3.80
8	62857	18.80	35	11	4½	4.00	19.00	38	11	4½	4.00	19.90	35	11	4½	4.00	21.40	38	11	4½	4.00	22.50	41	11	4½	4.30
10	62858	22.50	42	11	4½	4.50	23.70	44	11	4½	4.50	23.60	42	11	4½	4.50	25.10	44	11	4½	4.50	26.20	47	11	4½	4.80

THREE-WIRE BRANCHES

2	62859	\$9.45	20	11	4½	\$2.75	\$10.65	20	11	4½	\$2.75	\$10.55	20	11	4½	\$2.75	\$11.75	20	11	4½	\$2.75	\$12.85	23	11	4½	\$2.90
4	62860	15.10	29	11	4½	3.25	15.30	31	11	4½	3.25	16.20	29	11	4½	3.25	17.70	32	11	4½	3.25	17.80	34	11	4½	3.40
6	62861	21.90	40	11	4½	3.75	23.10	41	11	4½	3.75	23.30	40	11	4½	3.75	24.50	41	11	4½	3.75	25.60	43	11	4½	3.90
8	62862	27.55	50	11	4½	4.25	28.75	52	11	4½	4.25	28.95	50	11	4½	4.25	32.25	53	11	4½	4.25	33.35	56	11	4½	4.40
10	62863	33.20	59	11	4½	4.75	34.55	61	11	4½	4.75	34.60	59	11	4½	4.75	37.90	63	11	4½	4.75	39.00	65	11	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

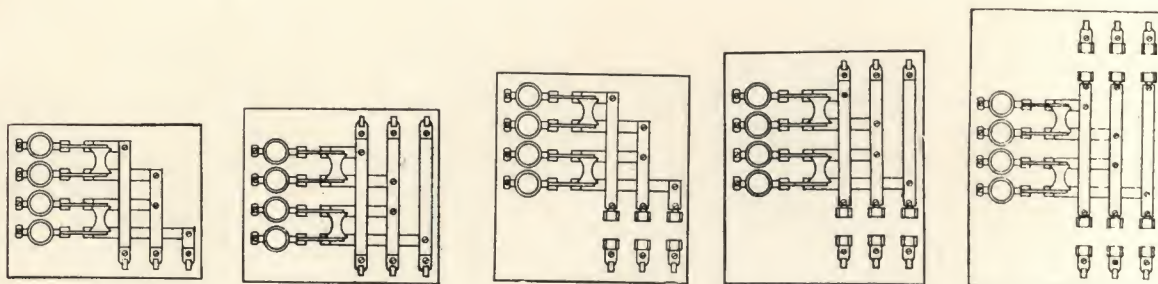
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62834	\$4.75	9	12	4½	\$2.20	\$5.95	10	12	4½	\$2.20	\$5.85	14	12	4½	\$2.40	\$7.05	14	12	4½	\$2.40	\$8.15	18	12	4½	\$2.55
4	62836	8.50	16	12	4½	2.70	9.70	16	12	4½	2.70	9.60	20	12	4½	2.90	10.80	20	12	4½	2.90	11.90	24	12	4½	3.05
6	62837	12.25	22	12	4½	3.20	13.45	23	12	4½	3.20	13.35	26	12	4½	3.40	14.55	27	12	4½	3.40	15.65	30	12	4½	3.55
8	62838	16.00	28	12	4½	3.70	17.20	29	12	4½	3.70	17.10	33	12	4½	3.90	18.60	35	12	4½	3.90	19.70	38	12	4½	4.05
10	62839	19.70	34	12	4½	4.20	20.90	35	12	4½	4.20	20.80	39	12	4½	4.40	22.30	41	12	4½	4.40	23.40	44	12	4½	4.55

THREE-WIRE BRANCHES

2	62840	\$6.65	13	12	4½	\$2.40	\$7.85	13	12	4½	\$2.40	\$7.75	17	12	4½	\$2.55	\$8.95	17	12	4½	\$2.55	\$10.05	20	12	4½	\$2.75
4	62841	12.30	22	12	4½	2.90	13.50	23	12	4½	2.90	13.40	26	12	4½	3.05	14.90	28	12	4½	3.05	16.00	31	12	4½	3.25
6	62842	17.85	32	12	4½	3.40	19.05	32	12	4½	3.40	19.25	37	12	4½	3.55	20.45	38	12	4½	3.55	21.55	40	12	4½	3.75
8	62843	23.50	41	12	4½	3.90	24.70	41	12	4½	3.90	24.90	47	12	4½	4.05	28.20	50	12	4½	4.05	29.30	52	12	4½	4.25
10	62844	29.15	50	12	4½	4.40	30.50	51	12	4½	4.40	30.55	56	12	4½	4.55	33.85	59	12	4½	4.55	34.95	62	12	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

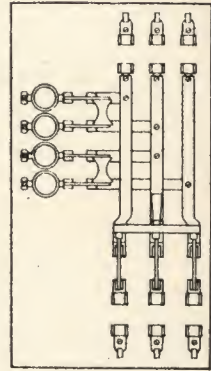
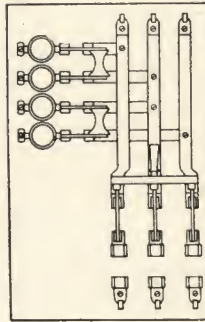
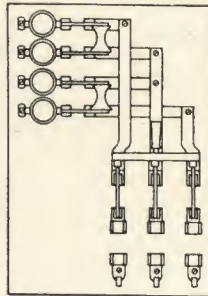
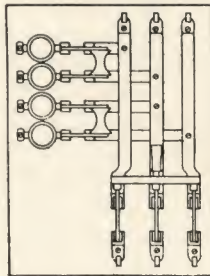
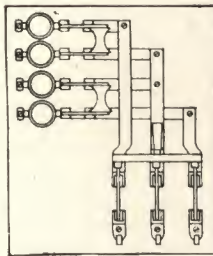
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NOTE—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSE PLUGS

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62864	\$7.55	17	12	4½	\$2.50	\$8.75	17	12	4½	\$2.50	\$8.65	17	12	4½	\$2.50	\$9.85	17	12	4½	\$2.50	\$10.95	20	12	4½	\$2.80
4	62865	11.30	23	12	4½	3.00	12.50	23	12	4½	3.00	12.40	23	12	4½	3.00	13.60	23	12	4½	3.00	14.70	27	12	4½	3.30
6	62866	15.05	29	12	4½	3.50	16.25	29	12	4½	3.50	16.15	29	12	4½	3.50	17.35	30	12	4½	3.50	18.45	33	12	4½	3.80
8	62867	18.80	35	12	4½	4.00	19.00	38	12	4½	4.00	19.90	35	12	4½	4.00	21.40	38	12	4½	4.00	22.50	41	12	4½	4.30
10	62868	22.50	42	12	4½	4.50	23.70	44	12	4½	4.50	23.60	42	12	4½	4.50	25.10	44	12	4½	4.50	26.20	47	12	4½	4.80

THREE-WIRE BRANCHES

2	62869	\$9.45	20	12	4½	\$2.75	\$10.65	20	12	4½	\$2.75	\$10.55	20	12	4½	\$2.75	\$11.75	20	12	4½	\$2.75	\$12.85	23	12	4½	\$2.90
4	62870	15.10	29	12	4½	3.25	15.30	31	12	4½	3.25	16.20	29	12	4½	3.25	17.70	32	12	4½	3.25	17.80	34	12	4½	3.40
6	62871	21.90	40	12	4½	3.75	23.10	41	12	4½	3.75	23.30	40	12	4½	3.75	24.50	41	12	4½	3.75	25.60	43	12	4½	3.90
8	62872	27.55	50	12	4½	4.25	28.75	52	12	4½	4.25	28.95	50	12	4½	4.25	32.25	53	12	4½	4.25	33.35	56	12	4½	4.40
10	62873	33.20	59	12	4½	4.75	31.55	61	12	4½	4.75	34.60	59	12	4½	4.75	37.90	63	12	4½	4.75	39.00	65	12	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

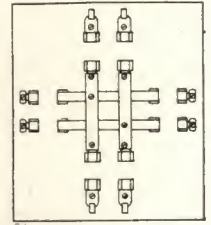
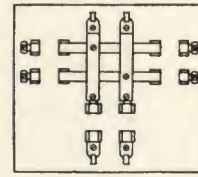
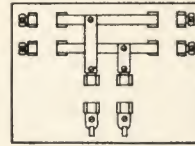
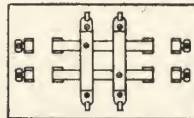
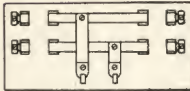
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

TWO-WIRE MAINS, DOUBLE BRANCH, WITHOUT CIRCUIT SWITCHES

WITHOUT MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	58482	\$2.85	7	11	4 1/2	\$1.90	\$3.65	7	11	4 1/2	\$1.90	\$3.60	11	11	4 1/2	\$2.25	\$4.40	11	11	4 1/2	\$2.25	\$5.15	16	11	4 1/2	\$2.35
4	58483	4.70	10	11	4 1/2	2.40	5.50	10	11	4 1/2	2.40	5.45	14	11	4 1/2	2.75	6.50	16	11	4 1/2	2.75	7.25	20	11	4 1/2	2.85
6	58484	6.55	13	11	4 1/2	2.90	7.35	13	11	4 1/2	2.90	7.55	19	11	4 1/2	3.25	8.35	19	11	4 1/2	3.25	9.10	24	11	4 1/2	3.35
8	58485	8.40	16	11	4 1/2	3.40	9.20	17	11	4 1/2	3.50	9.40	22	11	4 1/2	3.75	11.70	25	11	4 1/2	3.75	12.45	30	11	4 1/2	3.85
10	58486	10.25	19	11	4 1/2	3.90	11.20	20	11	4 1/2	4.00	11.25	25	11	4 1/2	4.25	13.55	28	11	4 1/2	4.25	14.30	35	11	4 1/2	4.35
12	58487	12.10	22	11	4 1/2	4.40	13.05	24	11	4 1/2	4.50	14.60	31	11	4 1/2	4.70	18.40	34	11	4 1/2	4.70	19.40	40	11	4 1/2	4.75
14	58488	13.95	26	11	4 1/2	4.85	14.90	27	11	4 1/2	4.95	16.45	34	11	4 1/2	5.15	20.25	37	11	4 1/2	5.15	21.25	43	11	4 1/2	5.20
16	58489	15.80	29	11	4 1/2	5.25	16.75	30	11	4 1/2	5.35	18.30	37	11	4 1/2	5.60	22.10	40	11	4 1/2	5.60	23.10	46	11	4 1/2	5.65
18	58490	17.65	33	11	4 1/2	5.70	19.00	33	11	4 1/2	5.70	23.15	43	11	4 1/2	6.05	24.10	43	11	4 1/2	6.05	25.10	49	11	4 1/2	6.10
20	58491	19.50	36	11	4 1/2	6.10	20.85	36	11	4 1/2	6.10	25.00	46	11	4 1/2	6.45	25.95	46	11	4 1/2	6.45	26.95	52	11	4 1/2	6.50
22	58492	21.35	39	11	4 1/2	6.50	22.70	40	11	4 1/2	6.60	26.85	49	11	4 1/2	6.75	27.80	50	11	4 1/2	6.75	30.30	58	11	4 1/2	6.90
24	58493	23.20	42	11	4 1/2	6.90	24.55	43	11	4 1/2	7.00	28.70	52	11	4 1/2	7.15	36.15	56	11	4 1/2	7.15	38.65	65	11	4 1/2	7.30
26	58494	25.05	45	11	4 1/2	7.25	26.40	47	11	4 1/2	7.40	30.55	55	11	4 1/2	7.50	38.00	59	11	4 1/2	7.50	40.50	68	11	4 1/2	7.65
28	58495	26.90	48	11	4 1/2	7.60	28.25	50	11	4 1/2	7.80	32.40	58	11	4 1/2	7.80	39.85	63	11	4 1/2	7.80	42.35	71	11	4 1/2	8.00
30	58496	28.75	51	11	4 1/2	7.95	30.10	53	11	4 1/2	8.20	34.25	62	11	4 1/2	8.20	41.70	66	11	4 1/2	8.20	44.20	74	11	4 1/2	8.35

250 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	58497	\$3.25	8	11	4 1/2	\$2.00	\$4.05	9	11	4 1/2	\$2.00	\$4.00	12	11	4 1/2	\$2.30	\$4.80	12	11	4 1/2	\$2.30	\$5.55	16	11	4 1/2	\$2.50
4	58498	5.50	12	11	4 1/2	2.50	6.30	13	11	4 1/2	2.50	6.25	16	11	4 1/2	2.80	7.30	18	11	4 1/2	2.80	8.05	22	11	4 1/2	3.00
6	58499	7.75	16	11	4 1/2	3.00	8.55	17	11	4 1/2	3.00	8.75	21	11	4 1/2	3.30	9.55	22	11	4 1/2	3.30	10.30	26	11	4 1/2	3.50
8	58500	10.00	20	11	4 1/2	3.50	10.80	21	11	4 1/2	3.50	11.00	25	11	4 1/2	3.80	13.30	29	11	4 1/2	3.80	14.05	33	11	4 1/2	4.00
10	58501	12.25	24	11	4 1/2	4.00	13.20	25	11	4 1/2	4.00	13.25	29	11	4 1/2	4.30	15.55	33	11	4 1/2	4.30	16.30	37	11	4 1/2	4.50
12	58502	14.50	28	11	4 1/2	4.45	15.45	30	11	4 1/2	4.45	17.00	36	11	4 1/2	4.75	20.80	39	11	4 1/2	4.75	21.80	45	11	4 1/2	4.90
14	58503	16.75	32	11	4 1/2	4.90	17.70	34	11	4 1/2	4.90	19.25	40	11	4 1/2	5.20	23.05	43	11	4 1/2	5.20	23.05	49	11	4 1/2	5.30
16	58504	19.00	36	11	4 1/2	5.35	19.95	38	11	4 1/2	5.35	21.50	44	11	4 1/2	5.65	25.30	47	11	4 1/2	5.65	26.30	53	11	4 1/2	5.70
18	58505	21.25	41	11	4 1/2	5.80	22.60	42	11	4 1/2	5.80	26.75	50	11	4 1/2	6.05	27.70	51	11	4 1/2	6.05	28.70	57	11	4 1/2	6.10
20	58506	23.50	45	11	4 1/2	6.25	24.85	46	11	4 1/2	6.25	29.00	54	11	4 1/2	6.45	29.95	55	11	4 1/2	6.45	30.95	61	11	4 1/2	6.50

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

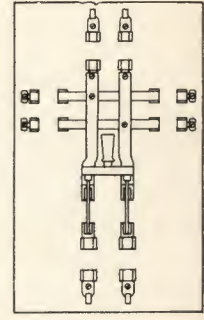
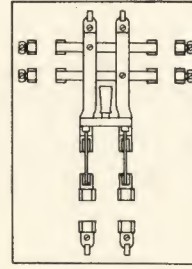
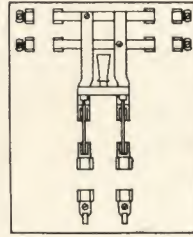
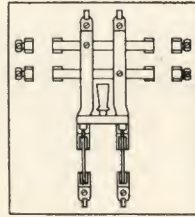
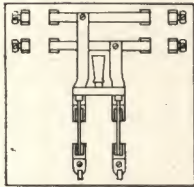
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

TWO-WIRE MAINS, DOUBLE BRANCH, WITHOUT CIRCUIT SWITCHES

WITH MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D	
2	58532	\$4.85	14	11	4½	\$2.30	\$5.65	14	11	4½	\$2.30	\$5.60	14	11	4½	\$2.30	\$6.40	14	11	4½	\$2.30
4	58533	6.70	17	11	4½	2.80	7.50	19	11	4½	2.80	7.45	17	11	4½	2.80	8.50	19	11	4½	2.80
6	58534	9.45	22	11	4½	3.30	10.25	22	11	4½	3.30	10.45	22	11	4½	3.30	11.25	22	11	4½	3.30
8	58535	11.30	25	11	4½	3.80	12.10	27	11	4½	3.80	12.30	25	11	4½	3.80	14.60	28	11	4½	3.80
10	58536	13.15	28	11	4½	4.30	14.10	30	11	4½	4.30	14.15	28	11	4½	4.30	16.45	31	11	4½	4.30
12	58537	16.20	33	11	4½	4.75	17.15	37	11	5½	5.15	18.70	34	11	4½	4.75	22.50	39	11	5½	5.15
14	58538	18.05	36	11	4½	5.15	19.00	40	11	5½	5.15	20.55	37	11	4½	5.15	24.35	42	11	5½	5.15
16	58539	19.90	39	11	4½	5.55	20.85	43	11	5½	5.55	22.40	41	11	4½	5.55	26.20	45	11	5½	5.55
18	58540	27.75	46	11	5½	5.95	29.10	47	11	5½	5.95	33.25	48	11	5½	5.95	34.20	49	11	5½	5.95
20	58541	29.60	49	11	5½	6.35	30.95	50	11	5½	6.35	35.10	51	11	5½	6.35	36.05	52	11	5½	6.35
22	58542	31.45	52	11	5½	6.75	32.80	53	11	5½	6.75	36.95	54	11	5½	6.75	37.90	55	11	5½	6.75
24	58543	33.30	55	11	5½	7.15	34.65	59	11	6	7.15	38.80	57	11	5½	7.15	46.25	63	11	6	7.15
26	58544	35.15	59	11	5½	7.50	36.50	62	11	6	7.50	40.65	61	11	5½	7.50	48.10	66	11	6	7.50
28	58545	37.00	62	11	5½	7.85	38.35	66	11	6	7.85	42.50	64	11	5½	7.85	49.55	69	11	6	7.85
30	58546	38.85	65	11	5½	8.20	40.20	69	11	6	8.20	44.35	67	11	5½	8.20	51.80	72	11	6	8.20

250 VOLTS

2	58547	\$5.25	16	11	4½	\$2.40	\$6.05	16	11	4½	\$2.40	\$6.00	16	11	4½	\$2.40	\$6.80	16	11	4½	\$2.40
4	58548	7.50	20	11	4½	2.90	8.30	23	11	4½	2.90	8.25	20	11	4½	2.90	9.30	23	11	4½	2.90
6	58549	10.65	26	11	4½	3.40	11.45	27	11	4½	3.40	11.65	26	11	4½	3.40	12.45	27	11	4½	3.40
8	58550	12.90	30	11	4½	3.90	13.70	32	11	4½	3.90	13.90	30	11	4½	3.90	16.20	33	11	4½	3.90
10	58551	15.15	34	11	4½	4.40	16.10	36	11	4½	4.40	16.15	34	11	4½	4.40	18.45	37	11	4½	4.40
12	58552	18.60	40	11	4½	4.85	19.55	43	11	5½	4.85	21.10	40	11	4½	4.85	24.90	45	11	5½	4.85
14	58553	20.85	43	11	4½	5.25	21.89	47	11	5½	5.25	23.35	44	11	4½	5.25	27.15	49	11	5½	5.25
16	58554	23.10	47	11	4½	5.65	24.05	51	11	5½	5.65	25.60	48	11	4½	5.65	29.40	53	11	5½	5.65
18	58555	31.35	53	11	5½	6.05	32.70	55	11	5½	6.05	36.85	55	11	5½	6.05	37.80	57	11	5½	6.05
20	58556	33.60	57	11	5½	6.45	34.95	58	11	5½	6.45	39.10	59	11	5½	6.45	40.05	60	11	5½	6.45

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

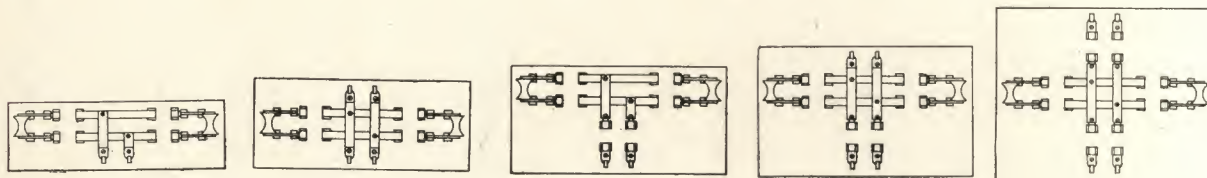
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES
TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	58507	\$4.10	7	16	4½	\$2.10	\$4.90	7	16	4½	\$2.10	\$4.85	11	16	4½	\$2.30	\$5.65	11	16	4½	\$2.30	\$6.40	16	16	4½	\$2.45
4	58508	7.20	10	16	4½	2.60	8.00	10	16	4½	2.60	7.95	14	16	4½	2.80	9.00	16	16	4½	2.80	9.75	20	16	4½	2.95
6	58509	10.30	13	16	4½	3.10	11.10	13	16	4½	3.10	11.30	19	16	4½	3.30	12.10	19	16	4½	3.30	12.85	24	16	4½	3.45
8	58510	13.40	16	16	4½	3.60	14.20	17	16	4½	3.60	14.40	22	16	4½	3.80	16.70	25	16	4½	3.80	17.45	30	16	4½	3.95
10	58511	16.50	19	16	4½	4.10	17.45	20	16	4½	4.10	17.50	25	16	4½	4.30	19.80	28	16	4½	4.30	20.55	35	16	4½	4.45
12	58512	19.60	22	16	4½	4.60	20.55	24	16	4½	4.60	22.10	31	16	4½	4.75	25.90	34	16	4½	4.75	26.90	40	16	4½	4.90
14	58513	22.70	26	16	4½	5.05	23.65	27	16	4½	5.05	25.20	34	16	4½	5.15	29.00	37	16	4½	5.15	30.00	43	16	4½	5.30
16	58514	25.80	29	16	4½	5.45	26.75	30	16	4½	5.45	28.30	37	16	4½	5.55	32.10	40	16	4½	5.55	33.10	46	16	4½	5.70
18	58515	28.90	33	16	4½	5.90	30.25	33	16	4½	5.90	34.40	43	16	4½	5.95	35.35	43	16	4½	5.95	36.35	49	16	4½	6.10
20	58516	32.00	36	16	4½	6.30	33.35	36	16	4½	6.30	37.50	46	16	4½	6.35	38.45	46	16	4½	6.35	39.45	52	16	4½	6.50
22	58517	35.10	39	16	4½	6.70	36.45	40	16	4½	6.70	40.60	49	16	4½	6.75	41.55	50	16	4½	6.75	44.05	58	16	4½	6.90
24	58518	38.20	42	16	4½	7.10	39.55	43	16	4½	7.10	43.70	52	16	4½	7.15	51.15	56	16	4½	7.15	53.65	65	16	4½	7.30
26	58519	41.30	45	16	4½	7.45	42.65	47	16	4½	7.45	46.80	55	16	4½	7.50	54.25	59	16	4½	7.50	56.75	68	16	4½	7.65
28	58520	44.40	48	16	4½	7.80	45.75	50	16	4½	7.80	49.90	58	16	4½	7.85	57.35	63	16	4½	7.85	59.85	71	16	4½	8.00
30	58521	47.50	51	16	4½	8.15	48.85	53	16	4½	8.15	53.00	62	16	4½	8.20	60.45	66	16	4½	8.20	62.95	74	16	4½	8.35

250 VOLTS

2	58522	\$4.90	8	17	5½	\$2.30	\$5.70	9	17	5½	\$2.30	\$5.65	12	17	5½	\$2.45	\$6.45	12	17	5½	\$2.45	\$7.20	16	17	5½	\$2.65
4	58523	8.80	12	17	5½	2.80	9.60	13	17	5½	2.80	9.55	16	17	5½	2.95	10.60	18	17	5½	2.95	11.35	22	17	5½	3.15
6	58524	12.70	16	17	5½	3.30	13.50	17	17	5½	3.30	13.70	21	17	5½	3.45	14.50	22	17	5½	3.45	15.25	26	17	5½	3.65
8	58525	15.60	20	17	5½	3.80	17.40	21	17	5½	3.80	17.60	25	17	5½	3.95	19.90	29	17	5½	3.95	20.65	33	17	5½	4.15
10	58526	20.50	24	17	5½	4.30	21.45	25	17	5½	4.30	21.50	29	17	5½	4.45	23.80	33	17	5½	4.45	24.55	37	17	5½	4.65
12	58527	24.40	28	17	5½	4.80	25.35	30	17	5½	4.80	26.90	36	17	5½	4.95	30.70	39	17	5½	4.95	31.70	45	17	5½	5.15
14	58528	28.30	32	17	5½	5.25	29.25	34	17	5½	5.25	30.80	40	17	5½	5.40	34.60	43	17	5½	5.40	35.60	49	17	5½	5.60
16	58529	32.20	36	17	5½	5.65	33.15	38	17	5½	5.65	34.70	44	17	5½	5.80	38.50	47	17	5½	5.80	39.50	53	17	5½	6.00
18	58530	36.10	41	17	5½	6.10	37.45	42	17	5½	6.10	41.60	50	17	5½	6.25	42.55	51	17	5½	6.25	43.55	57	17	5½	6.45
20	58531	40.00	45	17	5½	6.50	41.35	46	17	5½	6.50	45.50	54	17	5½	6.65	46.45	55	17	5½	6.65	47.45	61	17	5½	6.85

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

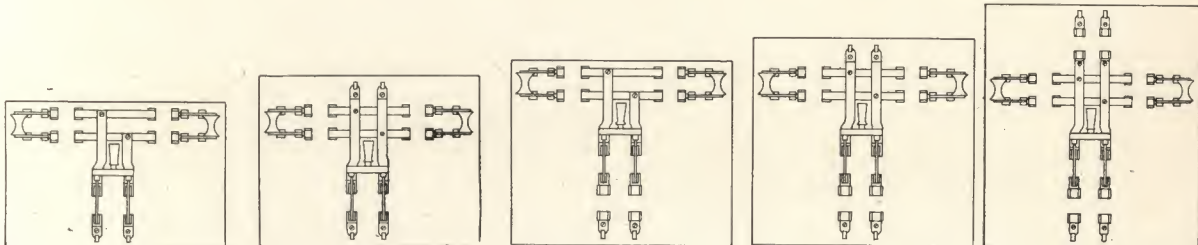
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS **ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES** **TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES** **WITH MAIN SWITCH**



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	58557	\$6.10	14	16	4½	\$2.40	\$6.90	14	16	4½	\$2.40	\$6.85	14	16	4½	\$2.40	\$7.65	14	16	4½	\$2.40	\$8.40	18	16	4½	\$2.70
4	58558	9.20	17	16	4½	2.90	10.00	19	16	4½	2.90	9.95	17	16	4½	2.90	11.00	19	16	4½	2.90	11.75	23	16	4½	3.20
6	58559	13.20	22	16	4½	3.40	14.00	22	16	4½	3.40	14.20	22	16	4½	3.40	15.00	22	16	4½	3.40	15.75	26	16	4½	3.70
8	58560	16.30	25	16	4½	3.90	17.10	27	16	4½	3.90	17.30	25	16	4½	3.90	19.60	28	16	4½	3.90	20.35	33	16	4½	4.20
10	58561	19.40	28	16	4½	4.40	20.35	30	16	4½	4.40	20.40	28	16	4½	4.40	22.70	31	16	4½	4.40	23.45	36	16	4½	4.70
12	58562	23.70	33	16	4½	4.85	24.65	37	16	5½	4.85	26.20	34	16	4½	4.85	30.00	39	16	5½	4.85	31.00	45	16	5½	5.15
14	58563	26.80	36	16	4½	5.25	27.75	40	16	5½	5.25	29.30	37	16	4½	5.25	33.10	42	16	5½	5.25	34.10	48	16	5½	5.55
16	58564	29.90	39	16	4½	5.65	30.85	43	16	5½	5.65	32.40	41	16	4½	5.65	36.20	45	16	5½	5.65	37.20	51	16	5½	5.95
18	58565	39.00	46	16	5½	6.05	40.35	47	16	5½	6.05	44.50	48	16	5½	6.05	45.45	49	16	5½	6.05	46.45	55	16	5½	6.35
20	58566	42.10	49	16	5½	6.45	43.45	50	16	5½	6.45	47.60	51	16	5½	6.45	48.55	52	16	5½	6.45	49.50	58	16	5½	6.75
22	58567	45.20	52	16	5½	6.85	46.55	53	16	5½	6.85	50.70	54	16	5½	6.85	51.65	55	16	5½	6.85	54.15	64	16	5½	7.15
24	58568	48.30	55	16	5½	7.25	49.65	59	16	6	7.25	53.80	57	16	5½	7.25	61.25	63	16	6	7.25	63.75	72	16	6	7.55
26	58569	51.40	59	16	5½	7.60	52.75	62	16	6	7.60	56.90	61	16	5½	7.60	64.35	66	16	6	7.60	66.85	75	16	6	7.90
28	58570	54.50	62	16	5½	7.95	55.85	66	16	6	7.95	60.00	64	16	5½	7.95	67.45	69	16	6	7.95	69.95	78	16	6	8.25
30	58571	57.60	65	16	5½	8.30	58.95	69	16	6	8.30	63.10	67	16	5½	8.30	70.55	72	16	6	8.30	73.05	81	16	6	8.60

250 VOLTS

2	58572	\$6.90	16	17	5 1/2	\$2.65	\$7.70	16	17	5 1/2	\$2.65	\$7.65	16	17	5 1/2	\$2.65	\$8.45	16	17	5 1/2	\$2.65	\$9.20	20	17	5 1/2	\$3.00	\$9.20	20	17	5 1/2	\$3.00	\$10.00	24	17	5 1/2	\$3.40	\$10.00
4	58573	10.80	20	17	5 1/2	3.15	11.60	23	17	5 1/2	3.15	11.55	20	17	5 1/2	3.15	12.60	23	17	5 1/2	3.15	13.35	27	17	5 1/2	3.40	13.35	27	17	5 1/2	3.40	14.40	31	17	5 1/2	3.80	14.40
6	58574	15.60	26	17	5 1/2	3.65	16.40	27	17	5 1/2	3.65	16.60	26	17	5 1/2	3.65	17.40	27	17	5 1/2	3.65	18.15	31	17	5 1/2	3.90	18.15	31	17	5 1/2	3.90	20.00	34	17	5 1/2	4.30	20.00
8	58575	19.50	30	17	5 1/2	4.15	20.30	32	17	5 1/2	4.15	20.50	30	17	5 1/2	4.15	22.80	33	17	5 1/2	4.15	23.55	37	17	5 1/2	4.40	23.55	37	17	5 1/2	4.40	25.80	40	17	5 1/2	4.80	25.80
10	58576	23.40	34	17	5 1/2	4.65	24.35	36	17	5 1/2	4.65	24.40	34	17	5 1/2	4.65	26.70	37	17	5 1/2	4.65	27.45	41	17	5 1/2	4.90	27.45	41	17	5 1/2	4.90	30.00	44	17	5 1/2	5.30	30.00
12	58577	28.50	40	17	5 1/2	5.10	29.45	43	17	5 1/2	5.10	31.00	40	17	5 1/2	5.10	34.80	45	17	5 1/2	5.10	35.80	50	17	5 1/2	5.40	35.80	50	17	5 1/2	5.40	38.40	53	17	5 1/2	5.80	38.40
14	58578	32.40	43	17	5 1/2	5.55	33.35	47	17	5 1/2	5.55	34.90	44	17	5 1/2	5.55	38.70	49	17	5 1/2	5.55	39.70	54	17	5 1/2	5.85	39.70	54	17	5 1/2	5.85	42.60	57	17	5 1/2	6.25	42.60
16	58579	36.30	47	17	5 1/2	6.00	37.25	51	17	5 1/2	6.00	38.80	48	17	5 1/2	6.00	42.60	53	17	5 1/2	6.00	43.60	58	17	5 1/2	6.35	43.60	58	17	5 1/2	6.35	46.50	61	17	5 1/2	6.75	46.50
18	58580	46.20	53	17	5 1/2	6.45	47.55	55	17	5 1/2	6.45	51.70	55	17	5 1/2	6.45	52.65	57	17	5 1/2	6.45	53.65	62	17	5 1/2	6.75	53.65	62	17	5 1/2	6.75	56.55	65	17	5 1/2	7.15	56.55
20	58581	50.10	57	17	5 1/2	6.90	51.45	58	17	5 1/2	6.90	55.60	59	17	5 1/2	6.90	56.55	60	17	5 1/2	6.90	57.55	66	17	5 1/2	7.25	57.55	66	17	5 1/2	7.25	60.45	69	17	5 1/2	7.65	60.45

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

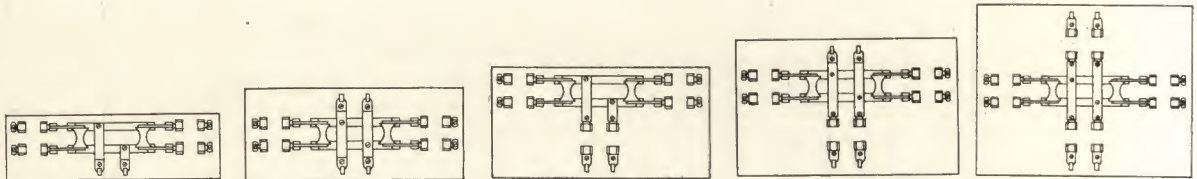
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS **ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES** **TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES** **WITHOUT MAIN SWITCH**



125 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62584	\$4.10	7	16	4 1/2	\$2.10	\$4.90	7	16	4 1/2	\$2.10	\$4.85	11	16	4 1/2	\$2.30	\$5.65	11	16	4 1/2	\$2.30	\$6.40	16	16	4 1/2	\$2.45
4	62585	7.20	10	16	4 1/2	2.60	8.00	10	16	4 1/2	2.60	7.95	14	16	4 1/2	2.80	9.00	16	16	4 1/2	2.80	9.75	20	16	4 1/2	2.95
6	62586	10.30	13	16	4 1/2	3.10	11.10	13	16	4 1/2	3.10	11.30	19	16	4 1/2	3.30	12.10	19	16	4 1/2	3.30	12.85	24	16	4 1/2	3.45
8	62588	13.40	16	16	4 1/2	3.60	14.20	17	16	4 1/2	3.60	14.40	22	16	4 1/2	3.80	16.70	25	16	4 1/2	3.80	17.45	30	16	4 1/2	3.95
10	62589	16.50	19	16	4 1/2	4.10	17.45	20	16	4 1/2	4.10	17.50	25	16	4 1/2	4.30	19.80	28	16	4 1/2	4.30	20.55	35	16	4 1/2	4.45
12	62590	19.60	22	16	4 1/2	4.60	20.55	24	16	4 1/2	4.60	22.10	31	16	4 1/2	4.75	25.90	34	16	4 1/2	4.75	26.90	40	16	4 1/2	4.90
14	62591	22.70	26	16	4 1/2	5.05	23.65	27	16	4 1/2	5.05	25.20	34	16	4 1/2	5.15	29.00	37	16	4 1/2	5.15	30.00	43	16	4 1/2	5.30
16	62592	25.80	29	16	4 1/2	5.45	26.75	30	16	4 1/2	5.45	28.30	37	16	4 1/2	5.55	32.10	40	16	4 1/2	5.55	33.10	46	16	4 1/2	5.70
18	62593	28.90	33	16	4 1/2	5.90	30.25	33	16	4 1/2	5.90	34.40	43	16	4 1/2	5.95	35.35	43	16	4 1/2	5.95	36.35	49	16	4 1/2	6.10
20	62594	32.00	36	16	4 1/2	6.30	33.35	36	16	4 1/2	6.30	37.50	46	16	4 1/2	6.35	38.45	46	16	4 1/2	6.35	39.45	52	16	4 1/2	6.50
22	62595	35.10	39	16	4 1/2	6.70	36.45	40	16	4 1/2	6.70	40.60	49	16	4 1/2	6.75	41.55	50	16	4 1/2	6.75	44.05	58	16	4 1/2	6.90
24	62596	38.20	42	16	4 1/2	7.10	39.55	43	16	4 1/2	7.10	43.70	52	16	4 1/2	7.15	51.15	56	16	4 1/2	7.15	53.65	65	16	4 1/2	7.30
26	62597	41.30	45	16	4 1/2	7.45	42.65	47	16	4 1/2	7.45	46.80	55	16	4 1/2	7.50	54.25	59	16	4 1/2	7.50	56.75	68	16	4 1/2	7.65
28	62598	44.40	48	16	4 1/2	7.80	45.75	50	16	4 1/2	7.80	49.90	58	16	4 1/2	7.85	57.35	63	16	4 1/2	7.85	59.85	71	16	4 1/2	8.00
30	62599	47.50	51	16	4 1/2	8.15	48.85	53	16	4 1/2	8.15	53.00	62	16	4 1/2	8.20	60.45	66	16	4 1/2	8.20	62.95	74	16	4 1/2	8.35

250 VOLTS

No. of Cir.	Cat. No.	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame
2	62600	\$4.90	8	17	5 1/2	\$2.30	\$5.70	9	17	5 1/2	\$2.30	\$5.65	12	17	5 1/2	\$2.45	\$6.45	12	17	5 1/2	\$2.45	\$7.20	16	17	5 1/2	\$2.65
4	62601	8.80	12	17	5 1/2	2.80	9.60	13	17	5 1/2	2.80	9.55	16	17	5 1/2	2.95	10.60	18	17	5 1/2	2.95	11.35	22	17	5 1/2	3.15
6	62602	12.70	16	17	5 1/2	3.30	13.50	17	17	5 1/2	3.30	13.70	21	17	5 1/2	3.45	14.50	22	17	5 1/2	3.45	15.25	26	17	5 1/2	3.65
8	62603	16.60	20	17	5 1/2	3.80	17.40	21	17	5 1/2	3.80	17.60	25	17	5 1/2	3.95	19.90	29	17	5 1/2	3.95	20.65	33	17	5 1/2	4.15
10	62604	20.50	24	17	5 1/2	4.30	21.45	25	17	5 1/2	4.30	21.50	29	17	5 1/2	4.45	23.80	33	17	5 1/2	4.45	24.55	37	17	5 1/2	4.65
12	62605	24.40	28	17	5 1/2	4.80	25.35	30	17	5 1/2	4.80	26.90	36	17	5 1/2	4.95	30.70	39	17	5 1/2	4.95	31.70	45	17	5 1/2	5.15
14	62606	28.30	32	17	5 1/2	5.25	29.25	34	17	5 1/2	5.25	30.80	40	17	5 1/2	5.40	34.60	43	17	5 1/2	5.40	35.60	49	17	5 1/2	5.60
16	62607	32.20	36	17	5 1/2	5.65	33.15	38	17	5 1/2	5.65	34.70	44	17	5 1/2	5.80	38.50	47	17	5 1/2	5.80	39.50	53	17	5 1/2	6.00
18	62608	36.10	41	17	5 1/2	6.10	37.45	42	17	5 1/2	6.10	41.60	50	17	5 1/2	6.25	42.55	51	17	5 1/2	6.25	43.55	57	17	5 1/2	6.45
20	62609	40.00	45	17	5 1/2	6.50	41.35	46	17	5 1/2	6.50	45.50	54	17	5 1/2	6.65	46.45	55	17	5 1/2	6.65	47.45	61	17	5 1/2	6.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

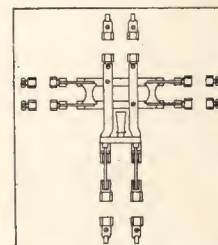
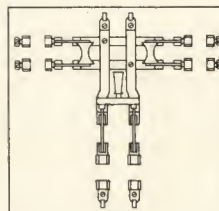
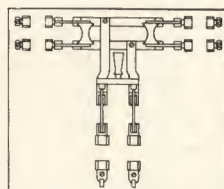
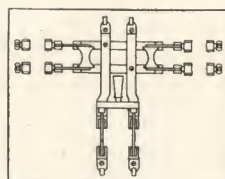
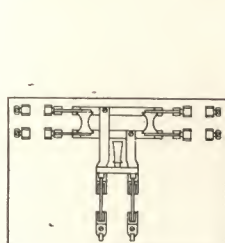
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES

WITH MAIN SWITCH



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62610	\$6.10	14	16	4½	\$2.40	\$6.90	14	16	4½	\$2.40	\$6.85	14	16	4½	\$2.40	\$7.65	14	16	4½	\$2.40	\$8.40	18	16	4½	\$2.70
4	62611	9.20	17	16	4½	2.90	10.00	19	16	4½	2.90	9.95	17	16	4½	2.90	11.00	19	16	4½	2.90	11.75	23	16	4½	3.20
6	62612	13.20	22	16	4½	3.40	14.00	22	16	4½	3.40	14.20	22	16	4½	3.40	15.00	22	16	4½	3.40	15.75	26	16	4½	3.70
8	62613	16.30	25	16	4½	3.90	17.10	27	16	4½	3.90	17.30	25	16	4½	3.90	19.60	28	16	4½	3.90	20.35	33	16	4½	4.20
10	62614	19.40	28	16	4½	4.40	20.35	30	16	4½	4.40	20.40	28	16	4½	4.40	22.70	31	16	4½	4.40	23.45	36	16	4½	4.70
12	62615	23.70	33	16	4½	4.85	24.65	37	16	5½	4.85	26.20	34	16	4½	4.85	30.00	39	16	5½	4.85	31.00	45	16	5½	5.15
14	62616	26.80	36	16	4½	5.25	27.75	40	16	5½	5.25	29.30	37	16	4½	5.25	33.10	42	16	5½	5.25	34.10	48	16	5½	5.55
16	62617	29.90	39	16	4½	5.65	30.85	43	16	5½	5.65	32.40	41	16	4½	5.65	36.20	45	16	5½	5.65	37.20	51	16	5½	5.95
18	62618	39.00	46	16	5½	6.05	40.35	47	16	5½	6.05	44.50	48	16	5½	6.05	45.45	49	16	5½	6.05	46.45	55	16	5½	6.35
20	62619	42.10	49	16	5½	6.45	43.45	50	16	5½	6.45	47.60	51	16	5½	6.45	48.55	52	16	5½	6.45	49.50	58	16	5½	6.75
22	62620	45.20	52	16	5½	6.85	46.55	53	16	5½	6.85	50.70	54	16	5½	6.85	51.65	55	16	5½	6.85	54.15	64	16	5½	7.15
24	62622	48.30	55	16	5½	7.25	49.65	59	16	6	7.25	53.80	57	16	5½	7.25	61.25	63	16	6	7.25	63.75	72	16	6	7.55
26	62624	51.40	59	16	5½	7.60	52.75	62	16	6	7.60	56.90	61	16	5½	7.60	64.35	66	16	6	7.60	66.85	75	16	6	7.90
28	62625	54.50	62	16	5½	7.95	55.85	66	16	6	7.95	60.00	64	16	5½	7.95	67.45	69	16	6	7.95	69.95	78	16	6	8.25
30	62626	57.60	65	16	5½	8.30	58.95	69	16	6	8.30	63.10	67	16	5½	8.30	70.55	72	16	6	8.30	73.05	81	16	6	8.60

250 VOLTS

2	62627	\$6.90	16	17	5 1/2	\$2.65	\$7.70	16	17	5 1/2	\$2.65	\$7.65	16	17	5 1/2	\$2.65	\$8.45	16	17	5 1/2	\$2.65	\$9.20	20	17	5 1/2	\$2.80
4	62628	10.80	20	17	5 1/2	3.15	11.60	23	17	5 1/2	3.15	11.55	20	17	5 1/2	3.15	12.60	23	17	5 1/2	3.15	13.35	27	17	5 1/2	3.30
6	62629	15.60	26	17	5 1/2	3.65	16.40	27	17	5 1/2	3.65	16.60	26	17	5 1/2	3.65	17.40	27	17	5 1/2	3.65	18.15	31	17	5 1/2	3.80
8	62630	19.50	30	17	5 1/2	4.15	20.30	32	17	5 1/2	4.15	20.50	30	17	5 1/2	4.15	22.80	33	17	5 1/2	4.15	23.55	37	17	5 1/2	4.30
10	62632	23.40	34	17	5 1/2	4.65	24.35	36	17	5 1/2	4.65	24.40	34	17	5 1/2	4.65	26.70	37	17	5 1/2	4.65	27.45	41	17	5 1/2	4.80
12	62634	28.50	40	17	5 1/2	5.10	29.45	43	17	5 1/2	5.10	31.00	40	17	5 1/2	5.10	34.80	45	17	5 1/2	5.10	35.80	50	17	5 1/2	5.25
14	62635	32.40	43	17	5 1/2	5.55	33.35	47	17	5 1/2	5.55	34.90	44	17	5 1/2	5.55	38.70	49	17	5 1/2	5.55	39.70	54	17	5 1/2	5.65
16	62636	36.30	47	17	5 1/2	6.00	37.25	51	17	5 1/2	6.00	38.80	48	17	5 1/2	6.00	42.60	53	17	5 1/2	6.00	43.60	58	17	5 1/2	6.15
18	62637	46.20	53	17	5 1/2	6.45	47.55	55	17	5 1/2	6.45	51.70	55	17	5 1/2	6.45	52.65	57	17	5 1/2	6.45	53.65	62	17	5 1/2	6.60
20	62638	50.10	57	17	5 1/2	6.90	51.45	58	17	5 1/2	6.90	55.60	59	17	5 1/2	6.90	56.55	60	17	5 1/2	6.90	57.55	66	17	5 1/2	7.05

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For slack enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

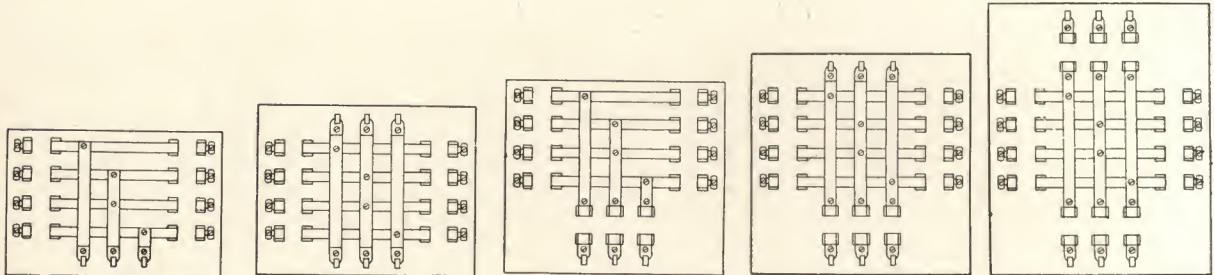
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES

WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

FORM L							FORM L-2							FORM F							FORM FL							FORM F-2						
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame								
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D									
2	58582	\$3.00	7	12	4½	\$2.00	\$4.20	7	12	4½	\$2.00	\$4.10	11	12	4½	\$2.35	\$5.30	11	12	4½	\$2.35	\$6.40	16	12	4½	\$2.45								
4	58583	5.00	10	12	4½	2.50	6.20	10	12	4½	2.50	6.10	14	12	4½	2.85	7.30	14	12	4½	2.85	8.40	19	12	4½	2.95								
6	58584	7.00	13	12	4½	3.00	8.20	13	12	4½	3.00	8.10	17	12	4½	3.35	9.30	17	12	4½	3.35	10.40	22	12	4½	3.45								
8	58585	9.00	16	12	4½	3.50	10.20	16	12	4½	3.50	10.10	20	12	4½	3.85	11.60	22	12	4½	3.85	12.70	27	12	4½	3.95								
10	58586	11.00	19	12	4½	4.00	12.20	19	12	4½	4.10	12.10	23	12	4½	4.35	13.60	25	12	4½	4.35	14.70	30	12	4½	4.45								
12	58587	13.00	22	12	4½	4.50	14.20	22	12	4½	4.60	14.40	28	12	4½	4.80	15.60	28	12	4½	4.80	17.00	33	12	4½	4.85								
14	58588	15.00	25	12	4½	4.95	16.20	25	12	4½	5.05	16.40	31	12	4½	5.25	19.70	31	12	4½	5.25	21.10	36	12	4½	5.30								
16	58589	17.00	28	12	4½	5.35	18.20	29	12	4½	5.45	18.40	34	12	4½	5.70	21.70	37	12	4½	5.70	23.10	42	12	4½	5.75								
18	58590	19.00	32	12	4½	5.80	20.35	32	12	4½	5.80	20.40	37	12	4½	6.15	23.85	40	12	4½	6.15	25.25	45	12	4½	6.20								
20	58591	21.00	35	12	4½	6.20	22.35	35	12	4½	6.20	22.40	40	12	4½	6.55	25.85	44	12	4½	6.55	27.25	48	12	4½	6.60								
22	58592	23.00	38	12	4½	6.60	24.35	38	12	4½	6.70	26.50	47	12	4½	6.85	27.85	47	12	4½	6.85	31.35	53	12	4½	7.00								
24	58593	25.00	41	12	4½	7.00	26.35	42	12	4½	7.10	28.50	50	12	4½	7.25	34.05	53	12	4½	7.25	37.55	59	12	4½	7.40								
26	58594	27.00	44	12	4½	7.35	28.35	46	12	4½	7.50	30.50	53	12	4½	7.60	36.05	56	12	4½	7.60	39.55	62	12	4½	7.75								
28	58595	29.00	47	12	4½	7.70	30.35	49	12	4½	7.90	32.50	56	12	4½	7.95	38.05	59	12	4½	7.95	41.55	65	12	4½	8.10								
30	58596	31.00	51	12	4½	8.05	32.35	52	12	4½	8.30	34.50	59	12	4½	8.30	40.05	62	12	4½	8.30	43.55	68	12	4½	8.45								
THREE-WIRE BRANCHES																																		
2	58642	\$4.00	8	12	4½	\$2.10	\$5.20	10	12	4½	\$2.10	\$5.10	12	12	4½	\$2.40	\$6.30	14	12	4½	\$2.40	\$7.40	16	12	4½	\$2.60								
4	58643	7.00	13	12	4½	2.60	8.20	14	12	4½	2.60	8.10	17	12	4½	2.90	9.60	19	12	4½	2.90	10.70	22	12	4½	3.10								
6	58644	10.00	18	12	4½	3.10	11.20	19	12	4½	3.10	11.40	23	12	4½	3.40	12.60	24	12	4½	3.40	13.70	27	12	4½	3.60								
8	58645	13.00	23	12	4½	3.60	13.20	24	12	4½	3.60	14.40	28	12	4½	3.90	17.70	32	12	4½	3.90	18.80	34	12	4½	4.10								
10	58646	16.00	28	12	4½	4.10	17.35	29	12	4½	4.10	17.40	33	12	4½	4.40	20.70	37	12	4½	4.40	21.80	39	12	4½	4.60								

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

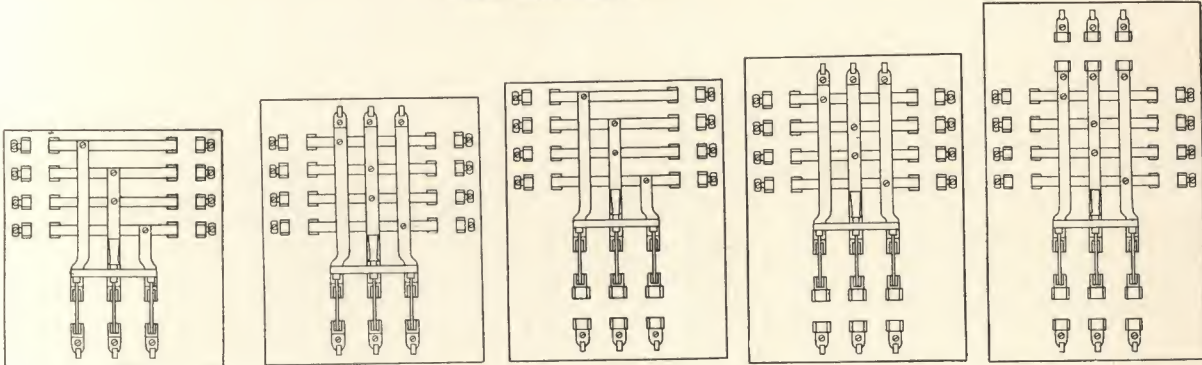
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES

WITH MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	58612	\$5.80	14	12	4 1/2	\$2.40	\$7.00	14	12	4 1/2	\$2.40	\$6.90	14	12	4 1/2	\$2.40	\$8.10	14	12	4 1/2	\$2.40	\$9.20	18	12	4 1/2	\$2.60
4	58613	7.80	17	12	4 1/2	2.90	9.00	17	12	4 1/2	2.90	8.90	17	12	4 1/2	2.90	10.10	17	12	4 1/2	2.90	11.20	22	12	4 1/2	3.10
6	58614	9.80	20	12	4 1/2	3.40	11.00	20	12	4 1/2	3.40	10.90	20	12	4 1/2	3.40	12.10	20	12	4 1/2	3.40	13.20	25	12	4 1/2	3.60
8	58615	11.80	23	12	4 1/2	3.90	13.00	25	12	4 1/2	3.90	12.90	23	12	4 1/2	3.90	14.40	25	12	4 1/2	3.90	15.50	30	12	4 1/2	4.10
10	58616	13.80	26	12	4 1/2	4.40	15.00	28	12	4 1/2	4.40	14.90	26	12	4 1/2	4.40	16.40	28	12	4 1/2	4.40	17.50	33	12	4 1/2	4.60
12	58617	15.80	31	12	4 1/2	4.85	18.25	31	12	4 1/2	4.85	18.45	31	12	4 1/2	4.85	19.65	31	12	4 1/2	4.85	21.05	36	12	4 1/2	5.05
14	58618	17.05	34	12	4 1/2	5.25	20.25	34	12	4 1/2	5.25	20.45	34	12	4 1/2	5.25	23.75	33	12	4 1/2	5.25	25.15	39	12	4 1/2	5.45
16	58619	21.05	37	12	4 1/2	5.65	22.25	39	12	4 1/2	5.65	22.45	37	12	4 1/2	5.65	25.75	41	12	4 1/2	5.65	27.15	45	12	4 1/2	5.85
18	58620	23.05	40	12	4 1/2	6.05	24.40	42	12	4 1/2	6.05	24.45	40	12	4 1/2	6.05	27.90	44	12	4 1/2	6.05	29.30	49	12	4 1/2	6.25
20	58621	25.05	44	12	4 1/2	6.45	26.40	45	12	4 1/2	6.45	26.45	44	12	4 1/2	6.45	29.90	47	12	4 1/2	6.45	31.30	52	12	4 1/2	6.65
22	58622	28.75	48	12	4 1/2	6.85	30.10	49	12	4 1/2	6.85	32.25	50	12	4 1/2	6.85	33.60	50	12	4 1/2	6.85	36.10	56	12	4 1/2	7.05
24	58623	30.75	51	12	4 1/2	7.25	32.10	56	12	5 1/2	7.25	34.25	53	12	4 1/2	7.25	39.80	58	12	5 1/2	7.25	43.30	64	12	5 1/2	7.40
26	58624	32.75	55	12	4 1/2	7.60	34.10	59	12	5 1/2	7.60	36.25	56	12	4 1/2	7.60	41.80	61	12	5 1/2	7.60	45.30	67	12	5 1/2	7.75
28	58625	34.75	58	12	4 1/2	7.95	36.10	62	12	5 1/2	7.95	38.25	59	12	4 1/2	7.95	43.80	64	12	5 1/2	7.95	47.30	70	12	5 1/2	8.10
30	58626	36.75	61	12	4 1/2	8.30	38.10	65	12	5 1/2	8.30	40.25	63	12	4 1/2	8.30	45.80	67	12	5 1/2	8.30	49.30	73	12	5 1/2	8.45

THREE-WIRE BRANCHES

2	58652	\$6.80	15	12	4 1/2	\$2.50	\$8.00	16	12	4 1/2	\$2.50	\$7.90	15	12	4 1/2	\$2.50	\$9.10	16	12	4 1/2	\$2.50	\$10.20	19	12	4 1/2	\$2.70
4	58653	9.80	20	12	4 1/2	3.00	11.00	23	12	4 1/2	3.00	10.90	20	12	4 1/2	3.00	12.40	23	12	4 1/2	3.00	13.50	25	12	4 1/2	3.20
6	58654	14.05	26	12	4 1/2	3.50	15.25	27	12	4 1/2	3.50	15.45	26	12	4 1/2	3.50	16.65	27	12	4 1/2	3.50	17.75	30	12	4 1/2	3.70
8	58655	17.05	31	12	4 1/2	4.00	18.25	32	12	4 1/2	4.00	18.45	31	12	4 1/2	4.00	21.75	35	12	4 1/2	4.00	22.85	38	12	4 1/2	4.20
10	58656	20.05	36	12	4 1/2	4.50	21.40	38	12	4 1/2	4.50	21.45	36	12	4 1/2	4.50	24.75	40	12	4 1/2	4.50	25.85	42	12	4 1/2	4.70

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

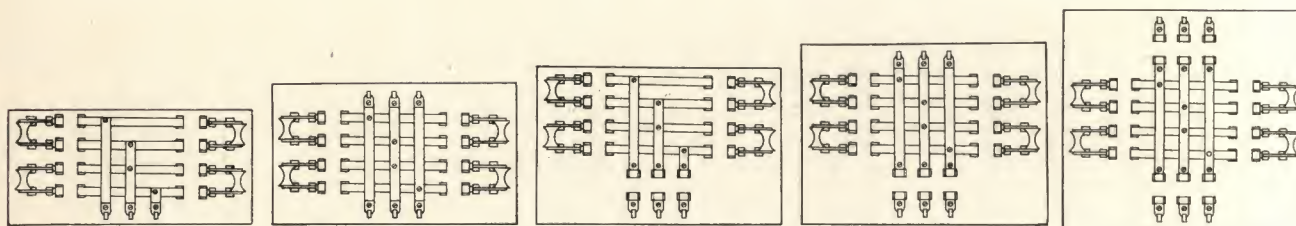
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES

WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	58597	\$4.45	7	17	4½	\$2.20	\$5.65	7	17	4½	\$2.20	\$5.55	11	17	4½	\$2.40	\$6.75	11	17	4½	\$2.40	\$7.85	16	17	4½	\$2.55
4	58598	7.90	10	17	4½	2.70	9.10	10	17	4½	2.70	9.00	14	17	4½	2.90	10.20	14	17	4½	2.90	11.30	19	17	4½	3.05
6	58599	11.35	13	17	4½	3.20	12.55	13	17	4½	3.20	12.45	17	17	4½	3.40	13.65	17	17	4½	3.40	14.75	22	17	4½	3.55
8	58600	14.80	16	17	4½	3.70	16.00	16	17	4½	3.70	15.90	20	17	4½	3.90	17.40	22	17	4½	3.90	18.50	27	17	4½	4.05
10	58601	18.25	19	17	4½	4.20	19.45	19	17	4½	4.20	19.35	23	17	4½	4.40	20.85	25	17	4½	4.40	21.95	30	17	4½	4.55
12	58602	21.70	22	17	4½	4.70	22.90	22	17	4½	4.70	23.10	28	17	4½	4.85	24.30	28	17	4½	4.85	25.70	33	17	4½	5.00
14	58603	25.15	25	17	4½	5.15	26.35	25	17	4½	5.15	26.55	31	17	4½	5.25	29.85	31	17	4½	5.25	31.25	36	17	4½	5.40
16	58604	28.60	28	17	4½	5.55	29.80	29	17	4½	5.55	30.00	34	17	4½	5.65	33.30	37	17	4½	5.65	34.70	42	17	4½	5.80
18	58605	32.05	32	17	4½	6.00	33.40	32	17	4½	6.00	33.45	37	17	4½	6.05	36.90	40	17	4½	6.05	38.30	45	17	4½	6.20
20	58606	35.45	35	17	4½	6.40	36.80	35	17	4½	6.40	36.85	40	17	4½	6.45	40.30	44	17	4½	6.45	41.70	48	17	4½	6.60
22	58607	38.90	38	17	4½	6.80	40.25	38	17	4½	6.80	42.40	47	17	4½	6.85	43.75	47	17	4½	6.85	47.25	53	17	4½	7.00
24	58608	42.35	41	17	4½	7.20	43.70	42	17	4½	7.20	45.85	50	17	4½	7.25	51.40	53	17	4½	7.25	54.90	59	17	4½	7.40
26	58609	45.80	44	17	4½	7.55	47.15	46	17	4½	7.55	49.30	53	17	4½	7.60	54.85	56	17	4½	7.60	58.35	62	17	4½	7.75
28	58610	49.25	47	17	4½	7.90	50.60	49	17	4½	7.90	52.75	56	17	4½	7.95	58.30	59	17	4½	7.95	61.80	65	17	4½	8.10
30	58611	52.70	51	17	4½	8.25	54.05	52	17	4½	8.25	56.20	59	17	4½	8.30	61.75	62	17	4½	8.30	65.25	68	17	4½	8.45

THREE-WIRE BRANCHES

2	58647	\$6.20	8	17	4½	\$2.40	\$7.40	10	17	4½	\$2.40	\$7.30	12	17	4½	\$2.55	\$8.50	14	17	4½	\$2.55	\$9.60	16	17	4½	\$2.75
4	58648	11.40	13	17	4½	2.90	12.60	14	17	4½	2.90	12.60	17	17	4½	3.05	14.00	19	17	4½	3.05	15.10	22	17	4½	3.25
6	58649	16.60	18	17	4½	3.40	17.80	19	17	4½	3.40	18.00	23	17	4½	3.55	19.20	24	17	4½	3.55	20.30	27	17	4½	3.75
8	58650	21.80	23	17	4½	3.90	23.00	24	17	4½	3.90	23.20	28	17	4½	4.05	26.50	32	11	4½	4.05	28.60	34	17	4½	4.25
10	58651	27.00	28	17	4½	4.40	28.35	29	17	4½	4.40	28.40	33	17	4½	4.55	31.70	37	17	4½	4.55	32.80	39	17	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbleized slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbleized slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

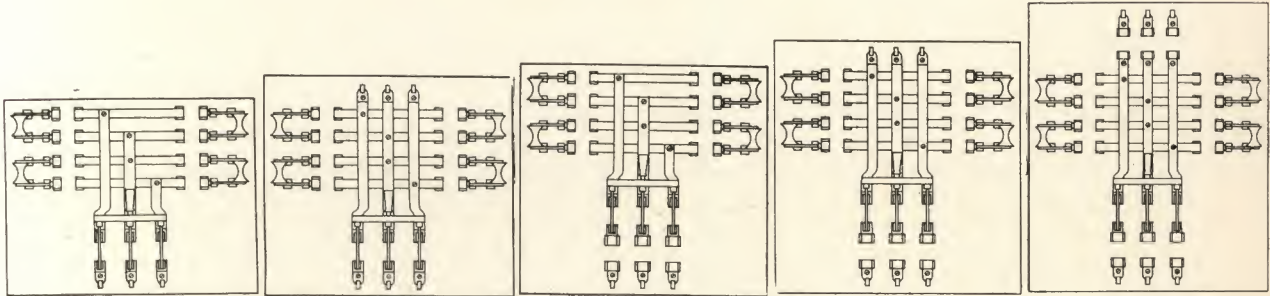
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES

WITH MAIN SWITCH



TWO-WIRE BRANCHES

		FORM L					FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	58627	\$7.25	14	17	4½	\$2.50	\$8.45	14	17	4½	\$2.50	\$8.35	14	17	4½	\$2.50	\$9.55	14	17	4½	\$2.50	\$9.65	18	17	4½	\$2.80
4	58628	10.70	17	17	4½	3.00	11.90	17	17	4½	3.00	11.80	17	17	4½	3.00	13.00	17	17	4½	3.00	14.10	22	17	4½	3.30
6	58629	14.15	20	17	4½	3.50	15.35	20	17	4½	3.50	15.25	20	17	4½	3.50	16.45	20	17	4½	3.50	17.55	25	17	4½	3.80
8	58630	17.60	23	17	4½	4.00	18.80	25	17	4½	4.00	18.70	23	17	4½	4.00	20.20	25	17	4½	4.00	20.90	30	17	4½	4.30
10	58631	21.05	26	17	4½	4.50	22.25	28	17	4½	4.50	22.15	26	17	4½	4.50	23.65	28	17	4½	4.50	24.75	33	17	4½	4.80
12	58632	25.75	31	17	4½	4.95	26.95	31	17	4½	4.95	27.15	31	17	4½	4.95	28.35	31	17	4½	4.95	29.75	36	17	4½	5.25
14	58633	29.20	34	17	4½	5.35	30.40	34	17	4½	5.35	30.60	34	17	4½	5.35	33.90	34	17	4½	5.35	35.30	39	17	4½	5.65
16	58634	32.65	37	17	4½	5.75	33.85	39	17	4½	5.75	34.05	37	17	4½	5.75	37.35	41	17	4½	5.75	38.75	45	17	4½	6.05
18	58635	36.10	40	17	4½	6.15	37.45	42	17	4½	6.15	37.50	40	17	4½	6.15	40.95	44	17	4½	6.15	42.35	49	17	4½	6.45
20	58636	39.50	44	17	4½	6.55	40.85	45	17	4½	6.55	40.90	44	17	4½	6.55	44.35	47	17	4½	6.55	45.75	52	17	4½	6.85
22	58637	44.65	48	17	4½	6.95	46.00	49	17	4½	6.95	48.15	50	17	4½	6.95	49.50	50	17	4½	6.95	53.00	56	17	4½	7.25
24	58638	48.10	51	17	4½	7.35	49.45	56	17	5½	7.35	51.60	53	17	4½	7.35	57.15	58	17	5½	7.35	60.65	64	17	5½	7.65
26	58639	51.55	55	17	4½	7.70	51.90	59	17	5½	7.70	55.05	56	17	4½	7.70	60.60	61	17	5½	7.70	64.10	67	17	5½	8.00
28	58640	55.00	58	17	4½	8.05	56.35	62	17	5½	8.05	58.50	59	17	4½	8.05	64.05	64	17	5½	8.05	67.55	70	17	5½	8.35
30	58641	58.45	61	17	4½	8.40	59.80	65	17	5½	8.40	61.95	63	17	4½	8.40	67.50	67	17	5½	8.40	71.00	73	17	5½	8.70

THREE-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	58657	\$9.00	15	17	4½	\$2.75	\$10.20	16	17	4½	\$2.75	\$10.10	15	17	4½	\$2.75	\$11.30	16	17	4½	\$2.75	\$12.40	19	17	4½	\$2.90
4	58658	14.20	20	17	4½	3.25	15.40	23	17	4½	3.25	15.30	20	17	4½	3.25	16.80	23	17	4½	3.25	17.90	25	17	4½	3.40
6	58659	20.65	26	17	4½	3.75	21.85	27	17	4½	3.75	22.05	26	17	4½	3.75	23.25	27	17	4½	3.75	24.35	30	17	4½	3.90
8	58660	25.85	31	17	4½	4.25	27.05	32	17	4½	4.25	27.25	31	17	4½	4.25	30.55	35	17	4½	4.25	31.65	38	17	4½	4.40
10	58661	31.05	36	17	4½	4.75	32.40	38	17	4½	4.75	32.45	36	17	4½	4.75	35.75	40	17	4½	4.75	36.85	42	17	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

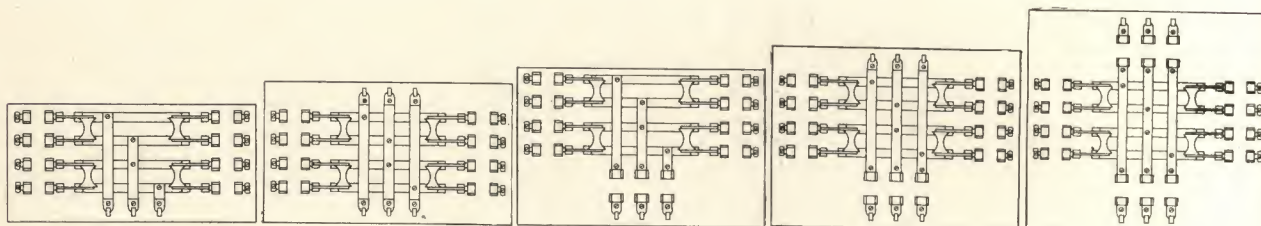
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES
THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62700	\$4.45	7	17	4½	\$2.20	\$5.65	7	17	4½	\$2.20	\$5.55	11	17	4½	\$2.40	\$6.75	11	17	4½	\$2.40	\$7.85	16	17	4½	\$2.55
4	62701	7.90	10	17	4½	2.70	9.10	10	17	4½	2.70	9.00	14	17	4½	2.80	10.20	14	17	4½	2.90	11.30	19	17	4½	3.05
6	62702	11.35	13	17	4½	3.20	12.55	13	17	4½	3.20	12.45	17	17	4½	3.40	13.65	17	17	4½	3.40	14.75	22	17	4½	3.55
8	62703	14.80	16	17	4½	3.70	16.00	16	17	4½	3.70	15.90	20	17	4½	3.90	17.40	22	17	4½	3.90	18.50	27	17	4½	4.05
10	62704	18.25	19	17	4½	4.20	19.45	19	17	4½	4.20	19.35	23	17	4½	4.40	20.85	25	17	4½	4.40	21.95	30	17	4½	4.55
12	62705	21.70	22	17	4½	4.70	22.90	22	17	4½	4.70	23.10	28	17	4½	4.85	24.30	28	17	4½	4.85	25.70	33	17	4½	5.00
14	62706	25.15	25	17	4½	5.15	26.35	25	17	4½	5.15	26.55	31	17	4½	5.25	29.85	31	17	4½	5.25	31.25	36	17	4½	5.40
16	62707	28.60	28	17	4½	5.55	29.80	29	17	4½	5.55	30.00	34	17	4½	5.65	33.30	37	17	4½	5.65	34.70	42	17	4½	5.80
18	62708	32.05	32	17	4½	6.00	33.40	32	17	4½	6.00	33.45	37	17	4½	6.05	36.90	40	17	4½	6.05	38.30	45	17	4½	6.20
20	62709	35.45	35	17	4½	6.40	36.80	35	17	4½	6.40	36.85	40	17	4½	6.45	40.30	44	17	4½	6.45	41.70	48	17	4½	6.60
22	62710	38.90	38	17	4½	6.80	40.25	38	17	4½	6.80	42.40	47	17	4½	6.85	43.75	47	17	4½	6.85	47.25	53	17	4½	7.00
24	62711	42.35	41	17	4½	7.20	43.70	42	17	4½	7.20	45.85	50	17	4½	7.25	51.40	53	17	4½	7.25	54.90	59	17	4½	7.40
26	62712	45.80	44	17	4½	7.55	47.15	46	17	4½	7.55	49.30	53	17	4½	7.60	54.85	56	17	4½	7.60	58.35	62	17	4½	7.75
28	62713	49.25	47	17	4½	7.90	50.60	49	17	4½	7.90	52.75	56	17	4½	7.85	58.30	59	17	4½	7.95	61.80	65	17	4½	8.10
30	62714	52.70	51	17	4½	8.25	54.05	52	17	4½	8.25	56.20	59	17	4½	8.30	61.75	62	17	4½	8.30	65.25	68	17	4½	8.45

THREE-WIRE BRANCHES

2	62715	\$6.20	8	17	4½	\$2.40	\$7.40	10	17	4½	\$2.40	\$7.30	12	17	4½	\$2.55	\$8.50	14	17	4½	\$2.55	\$9.60	16	17	4½	\$2.75
4	62716	11.40	13	17	4½	2.90	12.60	14	17	4½	2.90	12.60	17	17	4½	3.05	14.00	19	17	4½	3.05	15.10	22	17	4½	3.25
6	62717	16.60	18	17	4½	3.40	17.80	19	17	4½	3.40	18.00	23	17	4½	3.55	19.20	24	17	4½	3.55	20.30	27	17	4½	3.75
8	62718	21.80	23	17	4½	3.90	23.00	24	17	4½	3.90	23.20	28	17	4½	4.05	26.50	32	17	4½	4.05	26.60	34	17	4½	4.25
10	62719	27.00	28	17	4½	4.40	28.35	29	17	4½	4.40	28.40	33	17	4½	4.55	31.70	37	17	4½	4.55	32.80	39	17	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

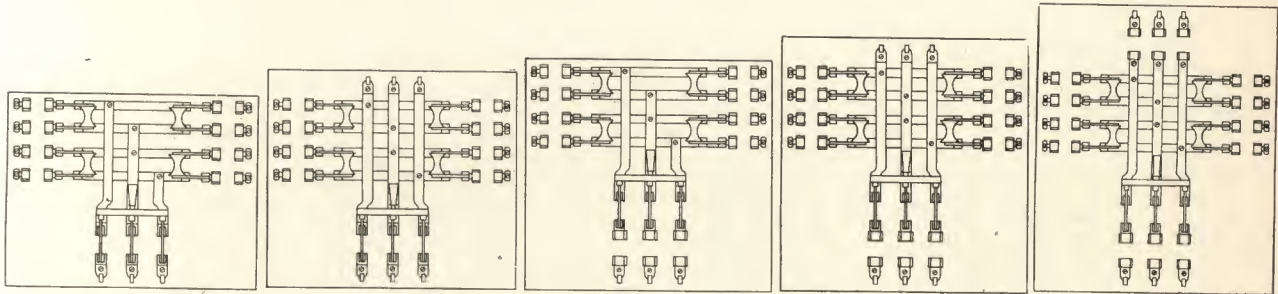
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE:—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITH MAIN SWITCHES



TWO-WIRE BRANCHES

		FORM L					FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62720	\$7.25	14	17	4½	\$2.50	\$8.45	14	17	4½	\$2.50	\$8.35	14	17	4½	\$2.50	\$9.55	14	17	4½	\$2.50	\$9.65	18	17	4½	\$2.80
4	62721	10.70	17	17	4½	3.00	11.90	17	17	4½	3.00	11.80	17	17	4½	3.00	13.00	17	17	4½	3.00	14.10	22	17	4½	3.30
6	62722	14.15	20	17	4½	3.50	15.35	20	17	4½	3.50	15.25	20	17	4½	3.50	16.45	20	17	4½	3.50	17.55	25	17	4½	3.80
8	62723	17.60	23	17	4½	4.00	18.80	25	17	4½	4.00	18.70	23	17	4½	4.00	20.20	25	17	4½	4.00	20.30	30	17	4½	4.30
10	62724	21.05	26	17	4½	4.50	22.25	28	17	4½	4.50	22.15	26	17	4½	4.50	23.65	28	17	4½	4.50	24.75	33	17	4½	4.80
12	62725	25.75	31	17	4½	4.95	26.95	31	17	4½	4.95	27.15	31	17	4½	4.95	28.35	31	17	4½	4.95	29.75	36	17	4½	5.25
14	62726	29.20	34	17	4½	5.35	30.40	34	17	4½	5.35	30.60	34	17	4½	5.35	33.90	34	17	4½	5.35	35.30	39	17	4½	5.65
16	62727	32.65	37	17	4½	5.75	33.85	39	17	4½	5.75	34.05	37	17	4½	5.75	37.35	41	17	4½	5.75	38.75	45	17	4½	6.05
18	62728	36.10	40	17	4½	6.15	37.45	42	17	4½	6.15	37.50	40	17	4½	6.15	40.95	44	17	4½	6.15	42.35	49	17	4½	6.45
20	62729	39.50	44	17	4½	6.55	40.85	45	17	4½	6.55	40.90	44	17	4½	6.55	44.35	47	17	4½	6.55	46.75	52	17	4½	6.85
22	62730	44.65	48	17	4½	6.95	46.00	49	17	4½	6.95	48.15	50	17	4½	6.95	49.50	50	17	4½	6.95	53.00	56	17	4½	7.25
24	62731	48.10	51	17	4½	7.35	49.45	56	17	5½	7.35	51.60	53	17	4½	7.35	57.15	58	17	5½	7.35	60.65	64	17	5½	7.65
26	62732	51.55	55	17	4½	7.70	51.90	59	17	5½	7.70	55.05	56	17	4½	7.70	60.60	61	17	5½	7.70	64.10	67	17	5½	8.00
28	62733	55.00	58	17	4½	8.05	56.35	62	17	5½	8.05	58.50	59	17	4½	8.05	64.05	64	17	5½	8.05	67.55	70	17	5½	8.35
30	62734	58.45	61	17	4½	8.40	59.80	65	17	5½	8.40	61.95	63	17	4½	8.40	67.50	67	17	5½	8.40	71.00	73	17	5½	8.70

		THREE-WIRE BRANCHES																								
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62735	\$9.00	15	17	4½	\$2.75	\$10.20	16	17	4½	\$2.75	\$10.10	15	17	4½	\$2.75	\$11.30	16	17	4½	\$2.75	\$12.40	19	17	4½	\$2.90
4	62736	14.20	20	17	4½	3.25	15.40	23	17	4½	3.25	15.30	20	17	4½	3.25	16.80	23	17	4½	3.25	17.90	25	17	4½	3.40
6	62737	20.65	26	17	4½	3.75	21.85	27	17	4½	3.75	22.05	26	17	4½	3.75	23.25	27	17	4½	3.75	24.35	30	17	4½	3.90
8	62738	25.85	31	17	4½	4.25	27.05	32	17	4½	4.25	27.25	31	17	4½	4.25	30.55	35	17	4½	4.25	31.65	38	17	4½	4.40
10	62739	31.05	36	17	4½	4.75	32.40	38	17	4½	4.75	32.45	36	17	4½	4.75	35.75	40	17	4½	4.75	36.85	42	17	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

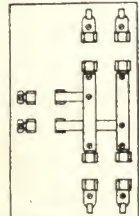
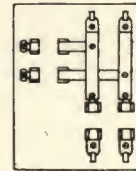
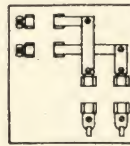
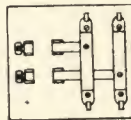
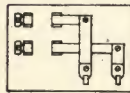
NOTE:—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

TWO-WIRE MAINS, SINGLE BRANCH, WITHOUT CIRCUIT SWITCHES

WITHOUT MAIN SWITCH



125 VOLTS

FORM L							FORM L-2							FORM F							FORM FL							FORM F-2						
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame								
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D		L	W	D					
2	58442	\$2.95	10	8	4½	\$2.00	\$3.75	10	8	4½	\$2.00	\$3.70	14	8	4½	\$2.25	\$4.50	14	8	4½	\$2.25	\$5.25	17	8	4½	\$2.35								
4	58443	4.90	16	8	4½	2.50	5.70	16	8	4½	2.50	5.65	20	8	4½	2.75	6.70	22	8	4½	2.75	7.45	24	8	4½	2.85								
6	58444	6.95	22	8	4½	3.00	7.75	23	8	4½	3.00	7.95	28	8	4½	3.25	8.75	28	8	4½	3.25	9.50	31	8	4½	3.35								
8	58445	8.90	29	8	4½	3.50	9.70	29	8	4½	3.50	9.90	34	8	4½	3.75	12.20	38	8	4½	3.75	12.95	40	8	4½	3.85								
10	58446	10.85	35	8	4½	4.00	11.80	35	8	4½	4.00	11.85	40	8	4½	4.25	14.15	44	8	4½	4.25	14.90	46	8	4½	4.35								
250 VOLTS																																		
2	58447	\$3.45	12	8	4½	\$2.20	\$4.25	12	8	4½	\$2.20	\$4.20	16	9	4½	\$2.35	\$5.00	16	9	4½	\$2.35	\$5.75	20	9	4½	\$2.60								
4	58448	5.90	20	8	4½	2.70	6.70	21	8	4½	2.70	6.65	23	9	4½	2.85	7.70	26	9	4½	2.85	8.45	30	9	4½	3.10								
6	58449	8.35	28	8	4½	3.20	9.15	29	8	4½	3.20	9.35	33	9	4½	3.35	10.15	34	9	4½	3.35	10.90	38	9	4½	3.60								
8	58450	10.80	36	8	4½	3.70	11.60	37	8	4½	3.70	11.80	41	9	4½	3.85	14.10	45	9	4½	3.85	14.85	48	9	4½	4.10								
10	58451	13.25	43	8	4½	4.20	14.20	45	8	4½	4.20	14.25	49	9	4½	4.35	16.55	52	9	4½	4.35	17.65	56	9	4½	4.60								

FINISHES

- No. 1.—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2.—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3.—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4.—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5.—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6.—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

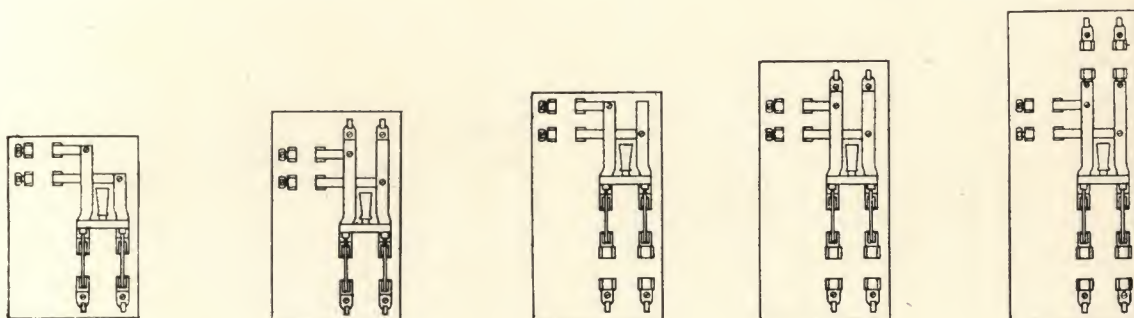
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS **ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES** **TWO-WIRE MAINS, SINGLE BRANCH, WITHOUT CIRCUIT SWITCHES** **WITH MAIN SWITCH**



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	58462	\$4.95	17	8	4½	\$2.30	\$5.75	17	8	4½	\$2.30	\$5.70	17	8	4½	\$2.30	\$6.50	17	8	4½	\$2.30	\$7.25	19	8	4½	\$2.50
4	58463	6.90	23	8	4½	2.80	7.70	25	8	4½	2.80	7.65	23	8	4½	2.80	8.70	25	8	4½	2.80	7.65	27	8	4½	3.00
6	58464	9.85	31	8	4½	3.30	10.65	31	8	4½	3.30	10.85	31	8	4½	3.30	11.65	31	8	4½	3.30	12.40	34	8	4½	3.50
8	58465	11.80	37	8	4½	3.80	12.60	39	8	4½	3.80	12.80	37	8	4½	3.80	15.10	41	8	4½	3.80	15.95	43	8	4½	4.00
10	58466	13.75	44	8	4½	4.30	14.70	46	8	4½	4.30	14.75	44	8	4½	4.30	17.05	47	8	4½	4.30	17.80	49	8	4½	4.50
250 VOLTS																										
2	58467	\$5.45	20	9	4½	\$2.40	\$6.25	20	9	4½	\$2.40	\$6.20	20	9	4½	\$2.40	\$7.00	20	9	4½	\$2.40	\$7.75	24	9	4½	\$2.60
4	58468	7.90	28	9	4½	2.90	8.70	31	9	4½	2.90	8.65	27	9	4½	2.90	9.70	30	9	4½	2.90	10.45	34	9	4½	3.10
6	58469	11.25	38	9	4½	3.40	12.05	38	9	4½	3.40	12.25	38	9	4½	3.40	13.05	38	9	4½	3.40	13.80	42	9	4½	3.60
8	58470	13.70	45	9	4½	3.90	14.50	48	9	4½	3.90	14.70	45	9	4½	3.90	17.00	49	9	4½	3.90	17.75	53	9	4½	4.10
10	58471	16.15	53	9	4½	4.40	17.10	56	9	4½	4.40	17.15	53	9	4½	4.40	19.50	57	9	4½	4.40	20.25	60	9	4½	4.60

250 VOLTS

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

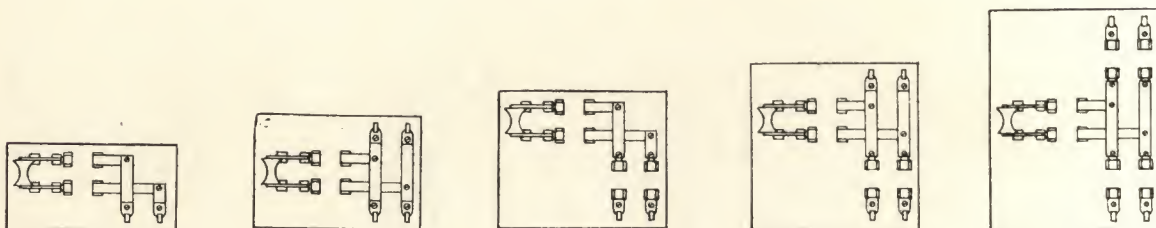
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES
TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



125 VOLTS									
FORM L					FORM L-2				
No. of Cir.	Cat. No.	List Price	SIZE			List Price	SIZE		
			L	W	D		L	W	D
2	58452	\$4.20	10	10	4½	\$5.00	10	10	4½
4	58453	7.40	16	10	4½	8.20	16	10	4½
6	58454	10.70	22	10	4½	11.50	23	10	4½
8	58455	13.90	29	10	4½	14.70	29	10	4½
10	58456	17.10	35	10	4½	18.05	35	10	4½
250 VOLTS									
2	58457	\$4.85	12	11	5½	\$5.65	12	11	5½
4	58458	8.70	20	11	5½	9.50	21	11	5½
6	58459	12.55	28	11	5½	13.35	29	11	5½
8	58460	16.40	36	11	5½	17.20	37	11	5½
10	58461	20.25	43	11	5½	21.20	45	11	5½

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 15 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

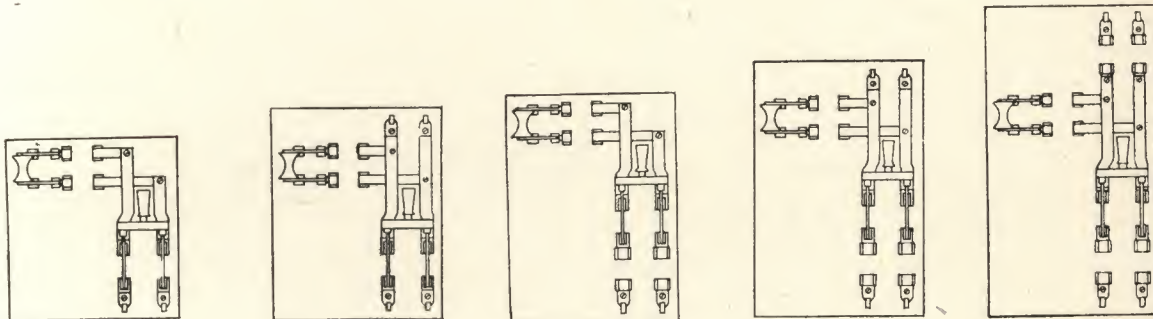
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES

WITH MAIN SWITCH



125 VOLTS

FORM L								FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D		
2	58472	\$6.20	17	10	4½	\$2.40	\$7.00	17	10	4½	\$2.40	\$6.95	17	10	4½	\$2.40	\$7.75	17	11	4½	\$2.40	\$8.50	19	11	4½	\$2.70	
4	58473	9.40	23	10	4½	2.90	10.20	25	10	4½	2.90	10.15	23	10	4½	2.90	11.20	25	11	4½	2.90	11.95	27	11	4½	3.20	
6	58474	13.60	31	10	4½	3.40	13.40	31	10	4½	3.40	14.60	31	10	4½	3.40	15.40	31	11	4½	3.40	16.15	34	11	4½	3.70	
8	58475	16.80	37	10	4½	3.90	17.60	39	10	4½	3.90	17.80	37	10	4½	3.90	20.10	41	11	4½	3.90	20.85	43	11	4½	4.20	
10	58476	20.00	44	10	4½	4.40	20.95	46	10	4½	4.40	21.00	44	10	4½	4.40	23.30	47	11	4½	4.40	24.05	49	11	4½	4.70	

250 VOLTS

2	58477	\$6.85	20	12	5 1/2		\$2.65	\$7.65	20	12	5 1/2		\$2.65	\$7.60	20	12	5 1/2		\$2.65	\$8.40	20	12	5 1/2		\$2.65
4	58478	10.70	28	12	5 1/2		3.15	11.50	31	12	5 1/2		3.15	11.45	27	12	5 1/2		3.15	12.50	30	12	5 1/2		3.15
6	58479	15.45	38	12	5 1/2		3.65	16.25	38	12	5 1/2		3.65	16.45	38	12	5 1/2		3.65	17.25	38	12	5 1/2		3.65
8	58480	19.30	45	12	5 1/2		4.15	20.10	48	12	5 1/2		4.15	20.30	45	12	5 1/2		4.15	22.60	49	12	5 1/2		4.15
10	58481	23.15	53	12	5 1/2		4.65	24.10	56	12	5 1/2		4.65	24.15	53	12	5 1/2		4.65	26.45	57	12	5 1/2		4.65

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

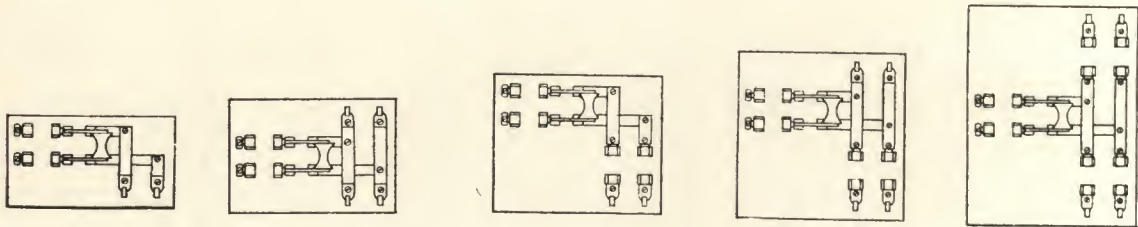
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES

WITHOUT MAIN SWITCH



125 VOLTS

FORM L								FORM L-2				FORM F				FORM FL				FORM F-2							
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D		
2	62563	\$4.20	10	11	4½	\$2.10	\$5.00	10	11	4½	\$2.10	\$4.95	14	11	4½	\$2.30	\$5.75	14	11	4½	\$2.30	\$6.50	17	11	4½	\$2.45	
4	62564	7.40	16	11	4½	2.60	8.20	16	11	4½	2.60	8.15	20	11	4½	2.80	9.20	22	11	4½	2.80	9.95	24	11	4½	2.95	
6	62565	10.70	22	11	4½	3.10	11.50	23	11	4½	3.10	11.70	28	11	4½	3.30	12.50	28	11	4½	3.30	13.25	31	11	4½	3.45	
8	62566	13.90	29	11	4½	3.60	14.70	29	11	4½	3.60	14.90	34	11	4½	3.80	17.20	38	11	4½	3.80	17.95	40	11	4½	3.95	
10	62567	17.10	35	11	4½	4.10	18.05	35	11	4½	4.10	18.10	40	11	4½	4.30	20.40	44	11	4½	4.30	21.15	46	11	4½	4.45	
250 VOLTS																											
2	32568	\$4.85	12	12	5½	\$2.30	\$5.65	12	12	5½	\$2.30	\$5.60	16	12	5½	\$2.45	\$6.40	16	12	5½	\$2.45	\$7.15	20	12	5½	\$2.65	
4	62570	8.70	20	12	5½	2.80	9.50	21	12	5½	2.80	9.45	23	12	5½	2.95	10.50	26	12	5½	2.95	11.25	30	12	5½	2.95	
6	62571	12.55	28	12	5½	3.30	13.35	29	12	5½	3.30	13.55	33	12	5½	3.45	14.35	34	12	5½	3.45	15.10	38	12	5½	3.45	
8	62572	16.40	36	12	5½	3.80	17.20	37	12	5½	3.80	17.40	41	12	5½	3.95	19.70	45	12	5½	3.95	20.45	48	12	5½	3.95	
10	62573	20.25	43	12	5½	4.30	21.20	45	12	5½	4.30	21.25	49	12	5½	4.35	23.55	52	12	5½	4.35	24.30	56	12	5½	4.45	

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

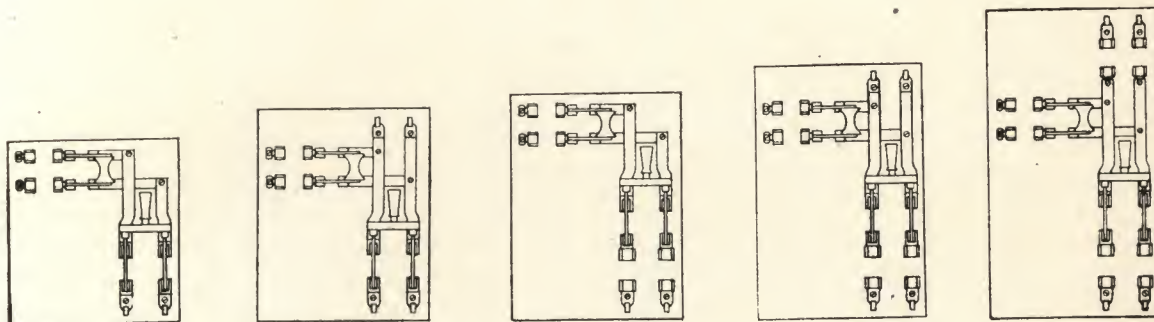
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES

WITH MAIN SWITCH



125 VOLTS

FORM L								FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE				Extra for Slate Frame	List Price	SIZE				Extra for Slate Frame	List Price	SIZE				Extra for Slate Frame	List Price	SIZE				Extra for Slate Frame		
			L	W	D	L			W	D	L	W			D	L	W	D			L	W	D				
2	62574	\$6.20	17	11	4½	\$2.40	\$7.00	17	11	4½	\$2.40	\$6.95	17	11	4½	\$2.40	\$7.75	17	11	4½	\$2.40	\$8.50	19	11	4½	\$2.70	
4	62575	9.40	23	11	4½	2.90	10.20	25	11	4½	2.90	10.15	23	11	4½	2.90	11.20	25	11	4½	2.90	11.95	27	11	4½	3.20	
6	62576	13.60	31	11	4½	3.40	13.40	31	11	4½	3.40	14.60	31	11	4½	3.40	15.40	31	11	4½	3.40	16.15	34	11	4½	3.70	
8	62577	16.80	37	11	4½	3.90	17.60	39	11	4½	3.90	17.80	37	11	4½	3.90	20.10	41	11	4½	3.90	20.85	43	11	4½	4.20	
10	62578	20.00	44	11	4½	4.40	20.95	46	11	4½	4.40	21.00	44	11	4½	4.40	23.30	47	11	4½	4.40	24.05	49	11	4½	4.70	

250 VOLTS

2	62579	\$6.85	20	12	5½	\$2.65	\$7.65	20	12	5½	\$2.65	\$7.60	20	12	5½	\$2.65	\$8.40	20	12	5½	\$2.65	\$9.15	24	12	5½	\$2.80
4	62580	10.70	28	12	5½	3.15	11.50	31	12	5½	3.15	11.45	27	12	5½	3.15	12.50	30	12	5½	3.15	13.25	34	12	5½	3.30
6	62581	15.45	38	12	5½	3.65	16.25	38	12	5½	3.65	16.45	38	12	5½	3.65	17.25	38	12	5½	3.65	18.00	42	12	5½	3.80
8	62582	19.30	45	12	5½	4.15	20.10	48	12	5½	4.15	20.30	45	12	5½	4.15	22.60	49	12	5½	4.15	23.35	53	12	5½	4.30
10	62583	23.15	53	12	5½	4.65	24.10	56	12	5½	4.65	24.15	53	12	5½	4.65	26.45	57	12	5½	4.65	27.20	60	12	5½	4.80

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amp.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

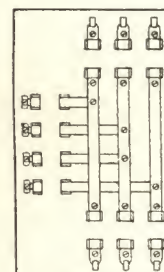
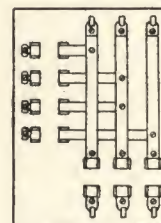
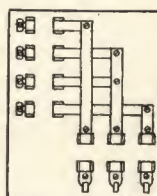
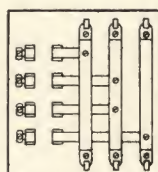
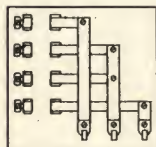
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES

WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D		
2	62639	\$3.10	9	9	4½	\$2.10	\$4.30	10	9	4½	\$2.10	\$4.20	14	10	4½	\$2.35	\$5.40	14	10	4½	\$2.35	\$6.50	18	10	4½	\$2.45	\$7.50
4	62640	5.20	16	9	4½	2.60	6.40	16	9	4½	2.60	6.30	20	10	4½	2.85	7.50	20	10	4½	2.85	8.60	24	10	4½	2.95	9.60
6	62641	7.30	22	9	4½	3.10	8.50	23	9	4½	3.10	8.40	26	10	4½	3.35	9.60	27	10	4½	3.35	9.70	30	10	4½	3.45	10.50
8	62642	9.40	28	9	4½	3.60	10.60	29	9	4½	3.60	10.50	33	10	4½	3.85	12.00	35	10	4½	3.85	13.10	38	10	4½	3.95	14.10
10	62643	11.50	34	9	4½	4.10	12.70	35	9	4½	4.10	12.60	39	10	4½	4.35	14.10	41	10	4½	4.35	15.20	44	10	4½	4.45	

THREE-WIRE BRANCHES

2	62644	\$4.15	13	9	4½	\$2.30	\$5.35	13	9	4½	\$2.30	\$5.25	17	10	4½	\$2.45	\$6.45	17	10	4½	\$2.45	\$7.55	20	10	4½	\$2.70	\$8.40
4	62645	7.30	22	9	4½	2.80	8.50	23	9	4½	2.80	8.40	26	10	4½	2.95	9.90	28	10	4½	2.95	11.00	31	10	4½	3.20	11.85
6	62646	10.45	32	9	4½	3.30	11.65	32	9	4½	3.30	11.55	37	10	4½	3.45	13.05	38	10	4½	3.45	14.15	40	10	4½	3.70	13.90
8	62647	13.60	41	9	4½	3.80	14.80	41	9	4½	3.80	15.00	47	10	4½	3.95	18.30	50	10	4½	3.95	19.40	52	10	4½	4.20	21.75
10	62648	17.05	50	9	4½	4.30	18.40	51	9	4½	4.30	18.45	56	10	4½	4.45	21.75	59	10	4½	4.45	22.85	62	10	4½	4.70	

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225-226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

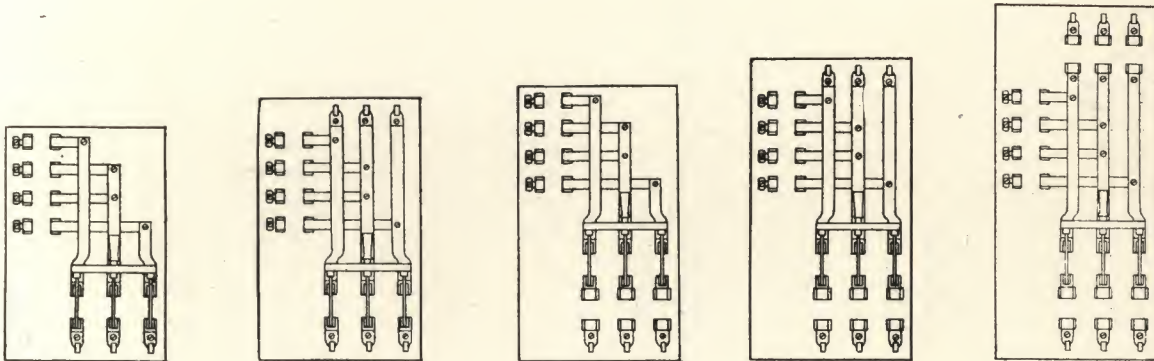
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, SINGLE BRANCH, WITHOUT CIRCUIT SWITCHES

WITH MAIN SWITCH



TWO-WIRE BRANCHES

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62670	\$5.90	17	10	4½	\$2.40	\$7.10	17	10	4½	\$2.40	\$6.00	17	10	4½	\$2.40	\$8.20	17	10	4½	\$2.40	\$9.30	20	10	4½	\$2.60
4	62671	8.00	23	10	4½	2.90	9.20	23	10	4½	2.90	9.10	23	10	4½	2.90	10.30	23	10	4½	2.90	11.40	27	10	4½	3.10
6	62672	10.10	29	10	4½	3.40	11.30	29	10	4½	3.40	11.20	29	10	4½	3.40	12.40	30	10	4½	3.40	13.50	33	10	4½	3.60
8	62673	12.20	35	10	4½	3.90	13.40	38	10	4½	3.90	13.30	35	10	4½	3.90	14.80	38	10	4½	3.90	15.80	41	10	4½	4.10
10	62674	14.30	42	10	4½	4.40	15.50	44	10	4½	4.40	15.40	42	10	4½	4.40	16.90	44	10	4½	4.40	18.00	47	10	4½	4.60

THREE-WIRE BRANCHES

2	62675	\$6.95	20	10	4½	\$2.50	\$8.15	20	10	4½	\$2.50	\$8.05	20	10	4½	\$2.50	\$9.25	20	10	4½	\$2.50	\$10.35	23	10	4½	\$2.80
4	62676	10.10	29	10	4½	3.00	11.30	31	10	4½	3.00	11.20	29	10	4½	3.00	12.70	32	10	4½	3.00	13.80	34	10	4½	3.30
6	62677	14.50	40	10	4½	3.50	15.70	41	10	4½	3.50	15.90	40	10	4½	3.50	17.10	41	10	4½	3.50	18.20	43	10	4½	3.80
8	62678	17.65	50	10	4½	4.00	18.85	52	10	4½	4.00	19.05	50	10	4½	4.00	22.35	53	10	4½	4.00	23.45	56	10	4½	4.30
10	62679	21.10	59	10	4½	4.50	22.45	61	10	4½	4.50	22.50	59	10	4½	4.50	25.80	63	10	4½	4.50	26.90	65	10	4½	4.80

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amps. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

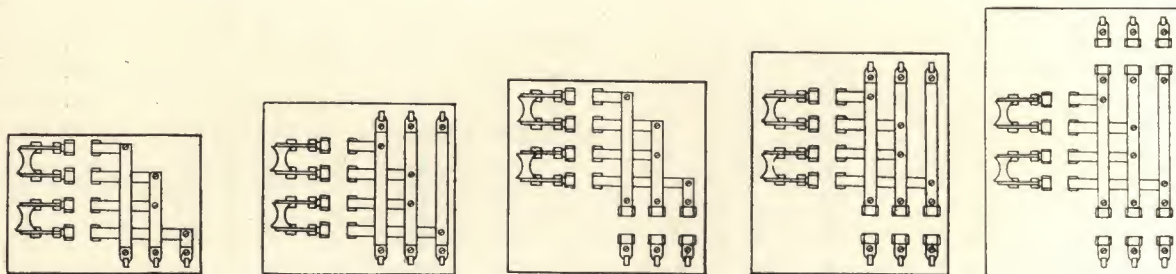
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES
THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62649	\$4.35	9	11	4½	\$2.20	\$5.55	10	11	4½	\$2.20	\$5.45	14	12	4½	\$2.40	\$6.65	14	12	4½	\$2.40	\$7.75	18	12	4½	\$2.55
4	62650	7.70	16	11	4½	2.70	8.90	16	11	4½	2.70	8.80	20	12	4½	2.90	10.00	20	12	4½	2.90	11.10	24	12	4½	3.05
6	62652	11.05	22	11	4½	3.20	12.25	23	11	4½	3.20	12.15	26	12	4½	3.40	13.35	27	12	4½	3.40	14.45	30	12	4½	3.55
8	62653	14.40	28	11	4½	3.70	15.60	29	11	4½	3.70	15.50	33	12	4½	3.90	17.00	35	12	4½	3.90	18.10	38	12	4½	4.05
10	62654	17.75	34	11	4½	4.20	18.95	35	11	4½	4.20	18.85	39	12	4½	4.40	20.35	41	12	4½	4.40	21.45	44	12	4½	4.55

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	62655	\$6.00	13	11	4½	\$2.40	\$7.20	13	11	4½	\$2.40	\$7.10	17	12	4½	\$2.55	\$8.30	17	12	4½	\$2.55	\$9.40	20	12	4½	\$2.75
4	62656	11.00	22	11	4½	2.90	12.20	23	11	4½	2.90	12.10	26	12	4½	3.05	13.60	28	12	4½	3.05	14.70	31	12	4½	3.25
6	62657	15.00	32	11	4½	3.40	16.20	32	11	4½	3.40	16.40	37	12	4½	3.55	17.60	38	12	4½	3.55	18.70	40	12	4½	3.75
8	62658	20.00	41	11	4½	3.90	21.20	41	11	4½	3.90	21.40	47	12	4½	4.05	26.70	50	12	4½	4.05	27.80	52	12	4½	4.25
10	62659	25.00	50	11	4½	4.40	26.35	51	11	4½	4.40	26.40	56	12	4½	4.55	29.70	59	12	4½	4.55	30.80	62	12	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

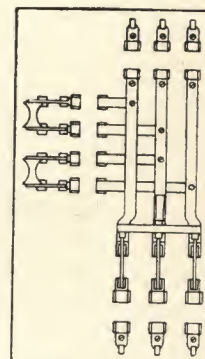
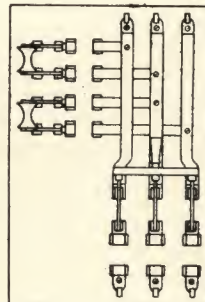
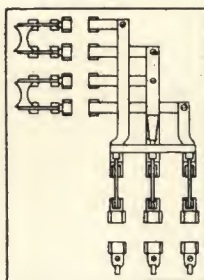
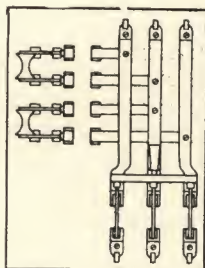
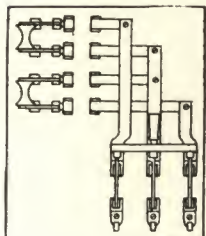
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
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Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D	
2	62680	\$7.15	17	12	4½	\$2.50	\$8.35	17	12	4½	\$2.50	\$8.25	17	12	4½	\$2.50	\$9.45	17	12	4½	\$2.50
4	62681	10.50	23	12	4½	3.00	11.70	23	12	4½	3.00	11.60	23	12	4½	3.00	12.80	23	12	4½	3.00
6	62682	13.85	29	12	4½	3.50	15.05	29	12	4½	3.50	14.95	29	12	4½	3.50	16.15	30	12	4½	3.50
8	62683	17.20	35	12	4½	4.00	18.40	38	12	4½	4.00	18.30	35	12	4½	4.00	19.80	38	12	4½	4.00
10	62684	20.55	42	12	4½	4.50	21.75	44	12	4½	4.50	21.65	42	12	4½	4.50	23.15	44	12	4½	4.50

THREE-WIRE BRANCHES

2	62685	\$8.80	20	12	4½	\$2.75	\$11.00	20	12	4½	\$2.75	\$9.90	20	12	4½	\$2.75	\$11.10	20	12	4½	\$2.75
4	62686	13.80	29	12	4½	3.25	15.00	31	12	4½	3.25	14.90	29	12	4½	3.25	16.40	32	12	4½	3.25
6	62687	19.05	40	12	4½	3.75	20.25	41	12	4½	3.75	20.45	40	12	4½	3.75	21.65	41	12	4½	3.75
8	62688	24.05	50	12	4½	4.25	25.25	52	12	4½	4.25	25.45	50	12	4½	4.25	28.75	53	12	4½	4.25
10	62689	29.05	59	12	4½	4.75	30.40	61	12	4½	4.75	30.45	59	12	4½	4.75	33.75	63	12	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
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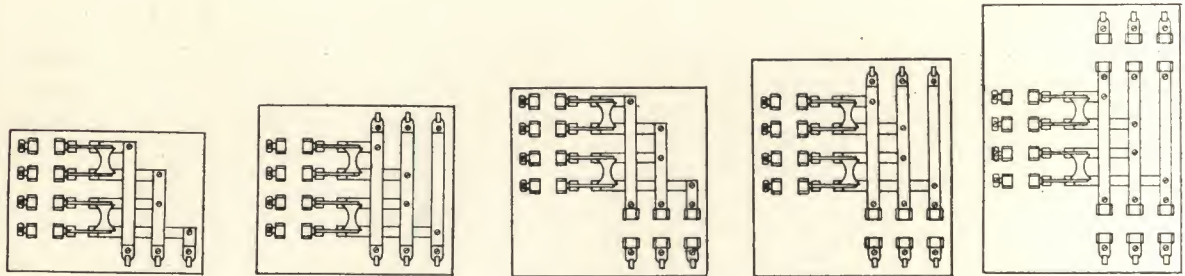
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES

WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

FORM L								FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D		
2	62660	\$4.35	9	12	4½	\$2.20	\$5.55	10	12	4½	\$2.20	\$5.45	14	12	4½	\$2.40	\$6.65	14	12	4½	\$2.40	\$7.75	18	12	4½	\$2.55	
4	62661	7.70	16	12	4½	2.70	8.90	16	12	4½	2.70	8.80	20	12	4½	2.90	10.00	20	12	4½	2.90	11.10	24	12	4½	3.05	
6	62662	11.05	22	12	4½	3.20	12.25	23	12	4½	3.20	12.15	26	12	4½	3.40	13.35	27	12	4½	3.40	14.45	30	12	4½	3.55	
8	62663	14.40	28	12	4½	3.70	15.60	29	12	4½	3.70	15.50	33	12	4½	3.90	17.00	35	12	4½	3.90	18.10	38	12	4½	4.05	
10	62664	17.75	34	12	4½	4.20	18.95	35	12	4½	4.20	18.85	39	12	4½	4.40	20.35	41	12	4½	4.40	21.45	44	12	4½	4.55	
THREE-WIRE BRANCHES																											
2	62665	\$6.00	13	12	4½	\$2.40	\$7.20	13	12	4½	\$2.40	\$7.10	17	12	4½	\$2.55	\$8.30	17	12	4½	\$2.55	\$9.40	20	12	4½	\$2.75	
4	62666	11.00	22	12	4½	2.90	12.20	23	12	4½	2.90	12.10	26	12	4½	3.05	13.60	28	12	4½	3.05	14.70	31	12	4½	3.25	
6	62667	15.00	32	12	4½	3.40	16.20	32	12	4½	3.40	16.40	37	12	4½	3.55	17.60	38	12	4½	3.55	18.70	40	12	4½	3.75	
8	62668	20.00	41	12	4½	3.90	21.20	41	12	4½	3.90	21.40	47	12	4½	4.05	26.70	50	12	4½	4.05	27.80	52	12	4½	4.25	
10	62669	25.00	50	12	4½	4.40	26.35	51	12	4½	4.40	26.40	56	12	4½	4.55	29.70	59	12	4½	4.55	30.80	62	12	4½	4.75	

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

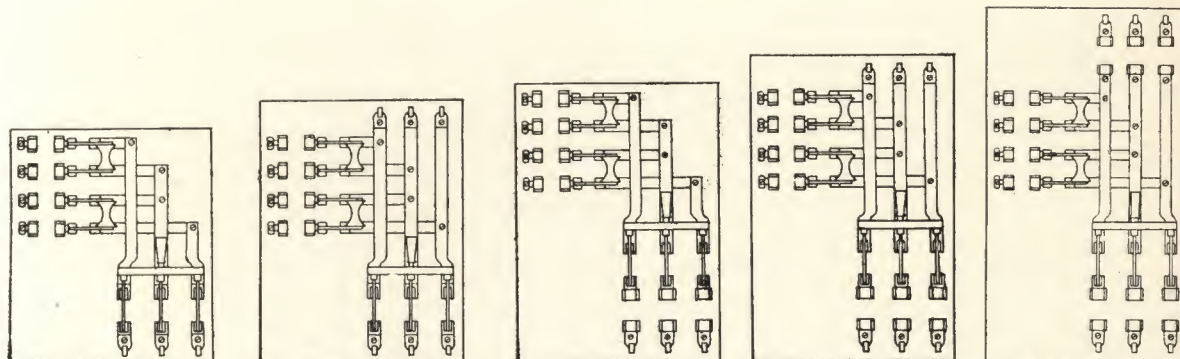
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel. The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel. The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62690	\$7.15	17	12	4½	\$2.50	\$8.35	17	12	4½	\$2.50	\$8.25	17	12	4½	\$2.50	\$9.45	17	12	4½	\$2.50	\$10.55	20	12	4½	\$2.80
4	62691	10.50	23	12	4½	3.00	11.70	23	12	4½	3.00	11.60	23	12	4½	3.00	12.80	23	12	4½	3.00	13.90	27	12	4½	3.30
6	62692	13.85	29	12	4½	3.50	15.05	29	12	4½	3.50	14.95	29	12	4½	3.50	16.15	30	12	4½	3.50	17.25	33	12	4½	3.80
8	62693	17.20	35	12	4½	4.00	18.40	38	12	4½	4.00	18.30	35	12	4½	4.00	19.80	38	12	4½	4.00	20.90	41	12	4½	4.30
10	62694	20.55	42	12	4½	4.50	21.75	44	12	4½	4.50	21.65	42	12	4½	4.50	23.15	44	12	4½	4.50	24.25	47	12	4½	4.80

THREE-WIRE BRANCHES

2	62695	\$8.80	20	12	4½	\$2.75	\$11.00	20	12	4½	\$2.75	\$9.90	20	12	4½	\$2.75	\$11.10	20	12	4½	\$2.75	\$12.20	23	12	4½	\$2.90
4	62696	13.80	29	12	4½	3.25	15.00	31	12	4½	3.25	14.90	29	12	4½	3.25	16.40	32	12	4½	3.25	17.50	34	12	4½	3.40
6	62697	19.05	40	12	4½	3.75	20.25	41	12	4½	3.75	20.45	40	12	4½	3.75	21.65	41	12	4½	3.75	22.75	43	12	4½	3.90
8	62698	24.05	50	12	4½	4.25	25.25	52	12	4½	4.25	25.45	50	12	4½	4.25	26.75	53	12	4½	4.25	27.85	56	12	4½	4.40
10	62699	29.05	59	12	4½	4.75	30.40	61	12	4½	4.75	30.45	59	12	4½	4.75	33.75	63	12	4½	4.75	34.85	65	12	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

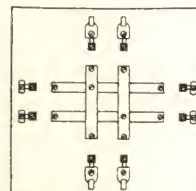
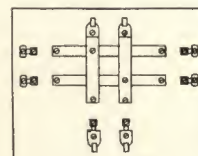
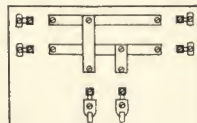
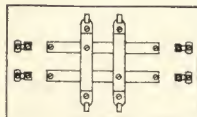
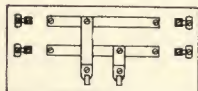
Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE:—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS
ARRANGED FOR OPEN LINK FUSES
TWO-WIRE MAINS, DOUBLE BRANCH, WITHOUT CIRCUIT SWITCHES
WITHOUT MAIN SWITCH



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62976	\$2.85	7	12	4½	\$1.90	\$3.65	7	12	4½	\$1.90	\$3.60	11	12	4½	\$2.25	\$4.40	11	12	4½	\$2.25	\$5.15	16	12	4½	\$2.35
4	62977	4.70	10	12	4½	2.40	5.50	10	12	4½	2.40	5.45	14	12	4½	2.75	6.50	16	12	4½	2.75	7.25	20	12	4½	2.85
6	62978	6.55	13	12	4½	2.90	7.35	13	12	4½	2.90	7.55	19	12	4½	3.25	8.35	19	12	4½	3.25	9.10	24	12	4½	3.35
8	62979	8.40	16	12	4½	3.40	9.20	17	12	4½	3.50	9.40	22	12	4½	3.75	11.70	25	12	4½	3.75	12.45	30	12	4½	3.85
10	62980	10.25	19	12	4½	3.90	11.20	20	12	4½	4.00	11.25	25	12	4½	4.25	13.55	28	12	4½	4.25	14.30	35	12	4½	4.35
12	62981	12.10	22	12	4½	4.40	13.05	24	12	4½	4.50	14.60	31	12	4½	4.70	18.40	34	12	4½	4.70	19.40	40	12	4½	4.75
14	62982	13.95	26	12	4½	4.85	14.90	27	12	4½	4.95	16.45	34	12	4½	5.15	20.25	37	12	4½	5.15	21.25	43	12	4½	5.20
16	62983	15.80	29	12	4½	5.25	16.75	30	12	4½	5.35	18.30	37	12	4½	5.60	22.10	40	12	4½	5.60	23.10	46	12	4½	5.65
18	62984	17.65	33	12	4½	5.70	19.00	33	12	4½	5.70	23.15	43	12	4½	6.05	24.10	43	12	4½	6.05	25.10	49	12	4½	6.10
20	62985	19.50	36	12	4½	6.10	20.85	36	12	4½	6.10	25.00	46	12	4½	6.45	25.95	46	12	4½	6.45	26.95	52	12	4½	6.50
22	62986	21.35	39	12	4½	6.50	22.70	40	12	4½	6.60	26.85	49	12	4½	6.75	27.80	50	12	4½	6.75	30.30	58	12	4½	6.90
24	62987	23.20	42	12	4½	6.90	24.55	43	12	4½	7.00	28.70	52	12	4½	7.15	36.15	56	12	4½	7.15	38.65	65	12	4½	7.30
26	62988	25.05	45	12	4½	7.25	26.40	47	12	4½	7.40	30.55	55	12	4½	7.50	38.00	59	12	4½	7.50	40.50	68	12	4½	7.65
28	62989	26.90	48	12	4½	7.60	28.25	50	12	4½	7.80	32.40	58	12	4½	7.80	39.85	63	12	4½	7.80	42.35	71	12	4½	8.00
30	62990	28.75	51	12	4½	7.95	30.10	53	12	4½	8.20	34.25	62	12	4½	8.20	41.70	66	12	4½	8.20	44.20	74	12	4½	8.35

250 VOLTS

2	62991	\$3.25	8	13	4½	\$2.00	\$4.05	9	13	4½	\$2.00	\$4.00	12	13	4½	\$2.30	\$4.80	12	13	4½	\$2.30	\$5.55	16	13	4½	\$2.50
4	62992	5.50	12	13	4½	2.50	6.30	13	13	4½	2.50	6.25	16	13	4½	2.80	7.30	18	13	4½	2.80	8.05	22	13	4½	3.00
6	62993	7.75	16	13	4½	3.00	8.55	17	13	4½	3.00	8.75	21	13	4½	3.30	9.55	22	13	4½	3.30	10.30	26	13	4½	3.50
8	62994	10.00	20	13	4½	3.50	10.80	21	13	4½	3.50	11.00	25	13	4½	3.80	13.30	29	13	4½	3.80	14.05	33	13	4½	4.00
10	62995	12.25	24	13	4½	4.00	13.20	25	13	4½	4.00	13.25	29	13	4½	4.30	15.55	33	13	4½	4.30	16.30	37	13	4½	4.50
12	62996	14.50	28	13	4½	4.45	15.45	30	13	4½	4.45	17.00	36	13	4½	4.75	20.80	39	13	4½	4.75	21.80	45	13	4½	4.90
14	62997	16.75	32	13	4½	4.90	17.70	34	13	4½	4.90	19.25	40	13	4½	5.20	23.05	43	13	4½	5.20	23.05	49	13	4½	5.30
16	62998	19.00	36	13	4½	5.35	19.95	38	13	4½	5.35	21.50	44	13	4½	5.65	25.30	47	13	4½	5.65	26.30	53	13	4½	5.70
18	62999	21.25	41	13	4½	5.80	22.60	42	13	4½	5.80	26.75	50	13	4½	6.05	27.70	51	13	4½	6.05	28.70	57	13	4½	6.10
20	63000	23.50	45	13	4½	6.25	24.85	46	13	4½	6.25	29.00	54	13	4½	6.45	29.95	55	13	4½	6.45	30.95	61	13	4½	6.50

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

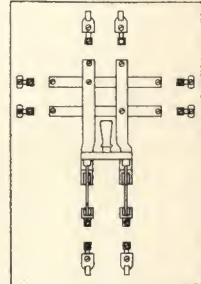
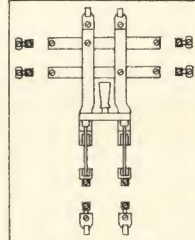
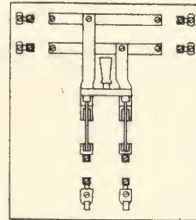
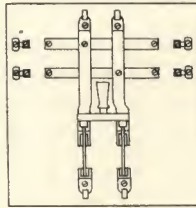
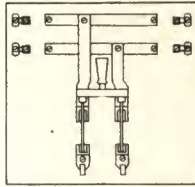
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS
ARRANGED FOR OPEN LINK FUSES
TWO-WIRE MAINS, DOUBLE BRANCH, WITHOUT CIRCUIT SWITCH
WITH MAIN SWITCH



125 VOLTS

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63051	\$4.85	14	12	4½	\$2.30	\$5.65	14	12	4½	\$2.30	\$5.60	14	12	4½	\$2.30	\$6.40	14	12	4½	\$2.30	\$7.15	18	12	4½	\$2.50
4	63052	6.70	17	12	4½	2.80	7.50	19	12	4½	2.80	7.45	17	12	4½	2.80	8.50	19	12	4½	2.80	9.25	23	12	4½	3.00
6	63053	9.45	22	12	4½	3.30	10.25	22	12	4½	3.30	10.45	22	12	4½	3.30	11.25	22	12	4½	3.30	12.00	26	12	4½	3.50
8	63054	11.30	25	12	4½	3.80	12.10	27	12	4½	3.80	12.30	25	12	4½	3.80	14.60	28	12	4½	3.80	15.35	33	12	4½	4.00
10	63055	13.15	28	12	4½	4.30	14.10	30	12	4½	4.30	14.15	28	12	4½	4.30	16.45	31	12	4½	4.30	17.20	36	12	4½	4.50
12	63056	16.20	33	12	4½	4.75	17.15	37	12	5¼	4.75	18.70	34	12	4½	4.75	22.50	39	12	5¼	4.75	23.50	45	12	5¼	4.95
14	63057	18.05	36	12	4½	5.15	19.00	40	12	5¼	5.15	20.55	37	12	4½	5.15	24.35	42	12	5¼	5.15	25.35	48	12	5¼	5.35
16	63058	19.90	39	12	4½	5.55	20.85	43	12	5¼	5.55	22.40	41	12	4½	5.55	26.20	45	12	5¼	5.55	27.20	51	12	5¼	5.75
18	63059	27.75	46	12	5¼	5.95	29.10	47	12	5¼	5.95	33.25	48	12	5¼	5.95	34.20	49	12	5¼	5.95	35.20	55	12	5¼	6.15
20	63060	29.60	49	12	5¼	6.35	30.95	50	12	5¼	6.35	35.10	51	12	5¼	6.35	36.05	52	12	5¼	6.35	37.05	58	12	5¼	6.55
22	63061	31.45	52	12	5¼	6.75	32.80	53	12	5¼	6.75	36.95	54	12	5¼	6.75	37.90	55	12	5¼	6.75	40.40	64	12	5¼	6.95
24	63062	33.30	55	12	5¼	7.15	34.65	59	12	6	7.15	38.80	57	12	5¼	7.15	46.25	63	12	6	7.15	48.75	72	12	6	7.30
26	63063	35.15	59	12	5¼	7.50	36.50	62	12	6	7.50	40.65	61	12	5¼	7.50	48.10	66	12	6	7.50	50.60	75	12	6	7.65
28	63064	37.00	62	12	5¼	7.85	38.35	66	12	6	7.85	42.50	64	12	5¼	7.85	49.55	69	12	6	7.85	52.05	78	12	6	8.00
30	63065	38.85	65	12	5¼	8.20	40.20	69	12	6	8.20	44.35	67	12	5¼	8.20	51.80	72	12	6	8.20	54.30	81	12	6	8.35

250 VOLTS

2	63066	\$5.25	16	13	4½	\$2.40	\$6.05	16	13	4½	\$2.40	\$6.00	16	13	4½	\$2.40	\$6.80	16	13	4½	\$2.40	\$7.55	20	13	4½	\$2.60
4	63067	7.50	20	13	4½	2.90	8.30	23	13	4½	2.90	8.25	20	13	4½	2.90	9.30	23	13	4½	2.90	10.05	27	13	4½	3.10
6	63068	10.65	26	13	4½	3.40	11.45	27	13	4½	3.40	11.65	26	13	4½	3.40	12.45	27	13	4½	3.40	13.20	31	13	4½	3.60
8	63069	12.90	30	13	4½	3.90	13.70	32	13	4½	3.90	13.90	30	13	4½	3.90	16.20	33	13	4½	3.90	16.95	37	13	4½	4.10
10	63070	15.15	34	13	4½	4.40	16.10	36	13	4½	4.40	16.15	34	13	4½	4.40	18.45	37	13	4½	4.40	19.20	41	13	4½	4.60
12	63071	18.60	40	13	4½	4.85	19.55	43	13	5¼	4.85	21.10	40	13	4½	4.85	24.90	45	13	5¼	4.85	25.90	50	13	5¼	5.05
14	63072	20.85	43	13	4½	5.25	21.80	47	13	5¼	5.25	23.35	44	13	4½	5.25	27.15	49	13	5¼	5.25	28.15	54	13	5¼	5.45
16	63073	23.10	47	13	4½	5.65	24.05	51	13	5¼	5.65	25.60	48	13	4½	5.65	29.40	53	13	5¼	5.65	30.40	58	13	5¼	5.85
18	63074	31.35	53	13	5¼	6.05	32.70	55	13	5¼	6.05	36.85	55	13	5¼	6.05	37.80	57	13	5¼	6.05	38.80	62	13	5¼	6.25
20	63075	33.60	57	13	5¼	6.45	34.95	58	13	5¼	6.45	39.10	59	13	5¼	6.45	40.05	60	13	5¼	6.45	41.05	66	13	5¼	6.65

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

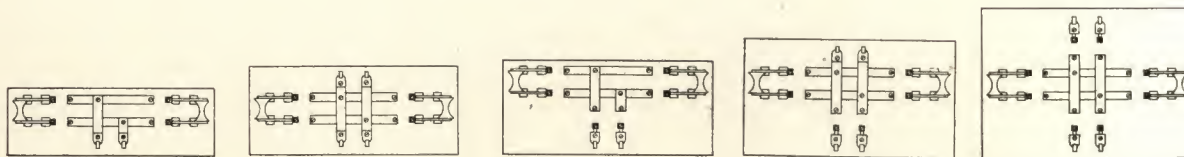
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



125 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63001	\$4.10	7	16	4½	\$2.10	\$4.90	7	16	4½	\$2.10	\$4.85	11	16	4½	\$2.30	\$5.65	11	16	4½	\$2.30	\$6.40	16	16	4½	\$2.45		16	16	4½	\$2.45
4	63002	7.20	10	16	4½	2.60	8.00	10	16	4½	2.60	7.95	14	16	4½	2.80	9.00	16	16	4½	2.80	9.75	20	16	4½	2.95		20	16	4½	2.95
6	63003	10.30	13	16	4½	3.10	11.10	13	16	4½	3.10	11.30	19	16	4½	3.30	12.10	19	16	4½	3.30	12.85	24	16	4½	3.45		24	16	4½	3.45
8	63004	13.40	16	16	4½	3.60	14.20	17	16	4½	3.60	14.40	22	16	4½	3.80	16.70	25	16	4½	3.80	17.45	30	16	4½	3.95		30	16	4½	3.95
10	63005	16.50	19	16	4½	4.10	17.45	20	16	4½	4.10	17.50	25	16	4½	4.30	19.80	28	16	4½	4.30	20.55	35	16	4½	4.45		35	16	4½	4.45
12	63006	19.60	22	16	4½	4.60	20.55	24	16	4½	4.60	22.10	31	16	4½	4.75	25.90	34	16	4½	4.75	26.90	40	16	4½	4.90		40	16	4½	4.90
14	63007	22.70	26	16	4½	5.05	23.65	27	16	4½	5.05	25.20	34	16	4½	5.15	29.00	37	16	4½	5.15	30.00	43	16	4½	5.30		43	16	4½	5.30
16	63008	25.80	29	16	4½	5.45	26.75	30	16	4½	5.45	28.30	37	16	4½	5.55	32.10	40	16	4½	5.55	33.10	46	16	4½	5.70		46	16	4½	5.70
18	63009	28.90	33	16	4½	5.90	30.25	33	16	4½	5.90	34.40	43	16	4½	5.95	35.35	43	16	4½	5.95	36.35	49	16	4½	6.10		49	16	4½	6.10
20	63010	32.00	36	16	4½	6.30	33.35	36	16	4½	6.30	37.50	46	16	4½	6.35	38.45	46	16	4½	6.35	39.45	52	16	4½	6.50		52	16	4½	6.50
22	63011	35.10	39	16	4½	6.70	36.45	40	16	4½	6.70	40.60	49	16	4½	6.75	41.55	50	16	4½	6.75	44.05	58	16	4½	6.90		58	16	4½	6.90
24	63012	38.20	42	16	4½	7.10	39.55	43	16	4½	7.10	43.70	52	16	4½	7.15	51.15	56	16	4½	7.15	53.65	65	16	4½	7.30		65	16	4½	7.30
26	63013	41.30	45	16	4½	7.45	42.65	47	16	4½	7.45	46.80	55	16	4½	7.50	54.25	59	16	4½	7.50	56.75	68	16	4½	7.65		68	16	4½	7.65
28	63014	44.40	48	16	4½	7.80	45.75	50	16	4½	7.80	49.90	58	16	4½	7.85	57.35	63	16	4½	7.85	59.85	71	16	4½	8.00		71	16	4½	8.00
30	63015	47.50	51	16	4½	8.15	48.85	53	16	4½	8.15	53.00	62	16	4½	8.20	60.45	66	16	4½	8.20	62.95	74	16	4½	8.35		74	16	4½	8.35

250 VOLTS

No. of Cir.	Cat. No.	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame	List Price	L	W	D	Extra for Slate for Frame
2	63016	\$4.90	8	18	5½	\$2.30	\$5.70	9	18	5½	\$2.30	\$5.65	12	18	5½	\$2.45	\$6.45	12	18	5½	\$2.45	\$7.20	16	18	5½	\$2.65		16	18	5½	\$2.65
4	63017	8.80	12	18	5½	2.80	9.60	13	18	5½	2.80	9.55	16	18	5½	2.95	10.60	18	18	5½	2.95	11.35	22	18	5½	3.15		22	18	5½	3.15
6	63018	12.70	16	18	5½	3.30	13.50	17	18	5½	3.30	13.70	21	18	5½	3.45	14.50	22	18	5½	3.45	15.25	26	18	5½	3.65		26	18	5½	3.65
8	63019	16.60	20	18	5½	3.80	17.40	21	18	5½	3.80	17.60	25	18	5½	3.95	19.90	29	18	5½	3.95	20.65	33	18	5½	4.15		33	18	5½	4.15
10	63020	20.50	24	18	5½	4.30	21.45	25	18	5½	4.30	21.50	29	18	5½	4.45	23.80	33	18	5½	4.45	24.55	37	18	5½	4.65		37	18	5½	4.65
12	63021	24.40	28	18	5½	4.80	25.35	30	18	5½	4.80	26.90	36	18	5½	4.95	30.70	39	18	5½	4.95	31.70	45	18	5½	5.15		45	18	5½	5.15
14	63022	28.30	32	18	5½	5.25	29.25	34	18	5½	5.25	30.80	40	18	5½	5.40	34.60	43	18	5½	5.40	35.60	49	18	5½	5.60		49	18	5½	5.60
16	63023	32.20	36	18	5½	5.65	33.15	38	18	5½	5.65	34.70	44	18	5½	5.80	38.50	47	18	5½	5.80	39.50	53	18	5½	6.00		53	18	5½	6.00
18	63024	36.10	41	18	5½	6.10	37.45	42	18	5½	6.10	41.60	50	18	5½	6.25	42.55	51	18	5½	6.25	43.55	57	18	5½	6.45		57	18	5½	6.45
20	63025	40.00	45	18	5½	6.50	41.35	46	18	5½	6.50	45.50	54	18	5½	6.65	46.45	55	18	5½	6.65	47.45	61	18	5½	6.85		61	18	5½	6.85

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

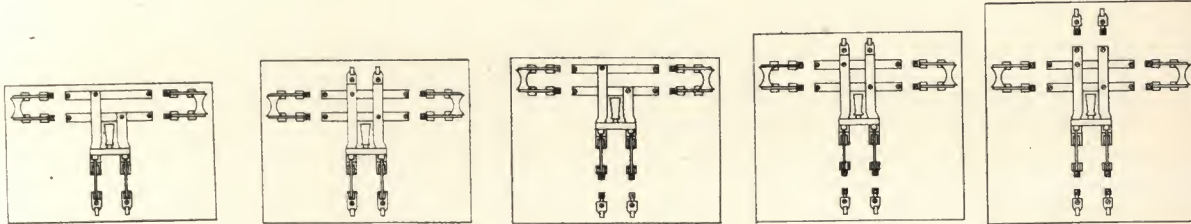
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS **ARRANGED FOR OPEN LINK FUSES** **TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES** **WITH MAIN SWITCH**



125 VOLTS

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63076	\$6.10	14	16	4 1/2	\$2.40	\$6.90	14	16	4 1/2	\$2.40	\$6.85	14	16	4 1/2	\$2.40	\$7.65	14	16	4 1/2	\$2.40	\$8.40	18	16	4 1/2	\$2.70
4	63077	9.20	17	16	4 1/2	2.90	10.00	19	16	4 1/2	2.90	9.95	17	16	4 1/2	2.90	11.00	19	16	4 1/2	2.90	11.75	23	16	4 1/2	3.20
6	63078	13.20	22	16	4 1/2	3.40	14.00	22	16	4 1/2	3.40	14.20	22	16	4 1/2	3.40	15.00	22	16	4 1/2	3.40	15.75	26	16	4 1/2	3.70
8	63079	16.30	25	16	4 1/2	3.90	17.10	27	16	4 1/2	3.90	17.30	25	16	4 1/2	3.90	19.60	28	16	4 1/2	3.90	20.35	33	16	4 1/2	4.20
10	63080	19.40	28	16	4 1/2	4.40	20.35	30	16	4 1/2	4.40	20.40	28	16	4 1/2	4.40	22.70	31	16	4 1/2	4.40	23.45	36	16	4 1/2	4.70
12	63081	23.70	33	16	4 1/2	4.85	24.65	37	16	5 1/2	4.85	26.20	34	16	4 1/2	4.85	30.00	39	16	5 1/2	4.85	31.00	45	16	5 1/2	5.15
14	63082	26.80	36	16	4 1/2	5.25	27.75	40	16	5 1/2	5.25	29.30	37	16	4 1/2	5.25	33.10	42	16	5 1/2	5.25	34.10	48	16	5 1/2	5.55
16	63083	29.90	39	16	4 1/2	5.65	30.85	43	16	5 1/2	5.65	32.40	41	16	4 1/2	5.65	36.20	45	16	5 1/2	5.65	37.20	51	16	5 1/2	5.95
18	63084	39.00	46	16	5 1/2	6.05	40.35	47	16	5 1/2	6.05	44.50	48	16	5 1/2	6.05	45.45	49	16	5 1/2	6.05	46.45	55	16	5 1/2	6.35
20	63085	42.10	49	16	5 1/2	6.45	43.45	50	16	5 1/2	6.45	47.60	51	16	5 1/2	6.45	48.55	52	16	5 1/2	6.45	49.50	58	16	5 1/2	6.75
22	63086	45.20	52	16	5 1/2	6.85	46.55	53	16	5 1/2	6.85	50.70	54	16	5 1/2	6.85	51.65	55	16	5 1/2	6.85	54.15	64	16	5 1/2	7.15
24	63087	48.30	55	16	5 1/2	7.25	49.65	59	16	6	7.25	53.80	57	16	5 1/2	7.25	61.25	63	16	6	7.25	63.75	72	16	6	7.55
26	63088	51.40	59	16	5 1/2	7.60	52.75	62	16	6	7.60	56.90	61	16	5 1/2	7.60	64.35	66	16	6	7.60	66.85	75	16	6	7.90
28	63089	54.50	62	16	5 1/2	7.95	55.85	66	16	6	7.95	60.00	64	16	5 1/2	7.95	67.45	69	16	6	7.95	69.95	78	16	6	8.25
30	63090	57.60	65	16	5 1/2	8.30	58.95	69	16	6	8.30	63.10	67	16	5 1/2	8.30	70.55	72	16	6	8.30	73.05	81	16	6	8.60

250 VOLTS

2	63091	\$6.90	16	18	5 1/2	\$2.65	\$7.70	16	18	5 1/2	\$2.65	\$7.65	16	18	5 1/2	\$2.65	\$8.45	16	18	5 1/2	\$2.65	\$9.20	20	18	5 1/2	\$2.80
4	63092	10.80	20	18	5 1/2	3.15	11.60	23	18	5 1/2	3.15	11.55	20	18	5 1/2	3.15	12.60	23	18	5 1/2	3.15	13.35	27	18	5 1/2	3.30
6	63093	15.60	26	18	5 1/2	3.65	16.40	27	18	5 1/2	3.65	16.60	26	18	5 1/2	3.65	17.40	27	18	5 1/2	3.65	18.15	31	18	5 1/2	3.80
8	63094	19.50	30	18	5 1/2	4.15	20.30	32	18	5 1/2	4.15	20.50	30	18	5 1/2	4.15	22.80	33	18	5 1/2	4.15	23.55	37	18	5 1/2	4.30
10	63095	23.40	34	18	5 1/2	4.65	24.35	36	18	5 1/2	4.65	24.40	34	18	5 1/2	4.65	26.70	37	18	5 1/2	4.65	27.45	41	18	5 1/2	4.80
12	63096	28.50	40	18	5 1/2	5.10	29.45	43	18	5 1/2	5.10	31.00	40	18	5 1/2	5.10	34.80	45	18	5 1/2	5.10	35.80	50	18	5 1/2	5.25
14	63097	32.40	43	18	5 1/2	5.55	33.35	47	18	5 1/2	5.55	34.90	44	18	5 1/2	5.55	38.70	49	18	5 1/2	5.55	39.70	54	18	5 1/2	5.55
16	63098	36.30	47	18	5 1/2	6.00	37.25	51	18	5 1/2	6.00	38.80	48	18	5 1/2	6.00	42.60	53	18	5 1/2	6.00	43.60	58	18	5 1/2	6.15
18	63099	46.20	53	18	5 1/2	6.45	47.55	55	18	5 1/2	6.45	51.70	55	18	5 1/2	6.45	52.65	57	18	5 1/2	6.45	53.65	62	18	5 1/2	6.60
20	63100	50.10	57	18	5 1/2	6.90	51.45	58	18	5 1/2	6.90	55.60	59	18	5 1/2	6.90	56.55	60	18	5 1/2	6.90	57.55	66	18	5 1/2	7.05

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

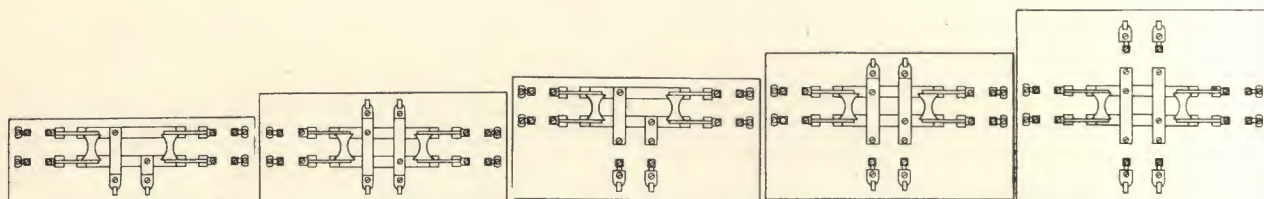
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITHOUT MAIN SWITCH



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63026	\$4.10	7	15	4½	\$2.10	\$4.90	7	15	4½	\$2.10	\$4.85	11	15	4½	\$2.30	\$5.65	11	15	4½	\$2.30	\$6.40	16	15	4½	\$2.45
4	63027	7.20	10	15	4½	2.60	8.00	10	15	4½	2.60	7.95	14	15	4½	2.80	9.00	16	15	4½	2.80	9.75	20	15	4½	2.95
6	63028	10.30	13	15	4½	3.10	11.10	13	15	4½	3.10	11.30	19	15	4½	3.30	12.10	19	15	4½	3.30	12.85	24	15	4½	3.45
8	63029	13.40	16	15	4½	3.60	14.20	17	15	4½	3.60	14.40	22	15	4½	3.80	16.70	25	15	4½	3.80	17.45	30	15	4½	3.95
10	63030	16.50	19	15	4½	4.10	17.45	20	15	4½	4.10	17.50	25	15	4½	4.30	19.80	28	15	4½	4.30	20.55	35	15	4½	4.45
12	63031	19.60	22	15	4½	4.60	20.55	24	15	4½	4.60	22.10	31	15	4½	4.75	25.90	34	15	4½	4.75	26.90	40	15	4½	4.90
14	63032	22.70	26	15	4½	5.05	23.65	27	15	4½	5.05	25.20	34	15	4½	5.15	29.00	37	15	4½	5.15	30.00	43	15	4½	5.30
16	63033	25.80	29	15	4½	5.45	26.75	30	15	4½	5.45	28.30	37	15	4½	5.55	32.10	40	15	4½	5.55	33.10	46	15	4½	5.70
18	63034	28.90	33	15	4½	5.90	30.25	33	15	4½	5.90	34.40	43	15	4½	5.95	35.35	43	15	4½	5.95	36.35	49	15	4½	6.10
20	63035	32.00	36	15	4½	6.30	33.35	36	15	4½	6.30	37.50	46	15	4½	6.35	38.45	46	15	4½	6.35	39.45	52	15	4½	6.50
22	63036	35.10	39	15	4½	6.70	36.45	40	15	4½	6.70	40.60	49	15	4½	6.75	41.55	50	15	4½	6.75	44.05	58	15	4½	6.90
24	63037	38.20	42	15	4½	7.10	39.55	43	15	4½	7.10	43.70	52	15	4½	7.15	51.15	56	15	4½	7.15	53.65	65	15	4½	7.30
26	63038	41.30	45	15	4½	7.45	42.65	47	15	4½	7.45	46.80	55	15	4½	7.50	54.25	59	15	4½	7.50	56.75	68	15	4½	7.65
28	63039	44.40	48	15	4½	7.80	45.75	50	15	4½	7.80	49.90	58	15	4½	7.85	57.35	63	15	4½	7.85	59.85	71	15	4½	8.00
30	63040	47.50	51	15	4½	8.15	48.85	53	15	4½	8.15	53.00	62	15	4½	8.20	60.45	66	15	4½	8.20	62.95	74	15	4½	8.35

250 VOLTS

2	63041	\$4.90	8	18	5½	\$2.30	\$5.70	9	18	5½	\$2.30	\$5.65	12	18	5½	\$2.45	\$6.45	12	18	5½	\$2.45	\$7.20	16	18	5½	\$2.65
4	63042	8.80	12	18	5½	2.80	9.60	13	18	5½	2.80	9.55	16	18	5½	2.95	10.60	18	18	5½	2.95	11.35	22	18	5½	3.15
6	63043	12.70	16	18	5½	3.30	13.50	17	18	5½	3.30	13.70	21	18	5½	3.45	14.50	22	18	5½	3.45	15.25	26	18	5½	3.65
8	63044	16.60	20	18	5½	3.80	17.40	21	18	5½	3.80	17.60	25	18	5½	3.95	19.90	29	18	5½	3.95	20.65	34	18	5½	4.15
10	63045	20.50	24	18	5½	4.30	21.45	25	18	5½	4.30	21.50	29	18	5½	4.45	23.80	33	18	5½	4.45	24.55	37	18	5½	4.65
12	63046	24.40	28	18	5½	4.80	25.35	30	18	5½	4.80	26.90	36	18	5½	4.95	30.70	39	18	5½	4.95	31.70	45	18	5½	5.15
14	63047	28.30	32	18	5½	5.25	29.25	34	18	5½	5.25	30.80	40	18	5½	5.40	34.60	43	18	5½	5.40	35.60	49	18	5½	5.60
16	63048	32.20	36	18	5½	5.65	33.15	38	18	5½	5.65	34.70	44	18	5½	5.80	38.50	47	18	5½	5.80	39.50	53	18	5½	6.00
18	63049	36.10	41	18	5½	6.10	37.45	42	18	5½	6.10	41.60	50	18	5½	6.25	42.55	51	18	5½	6.25	43.55	57	18	5½	6.45
20	63050	40.00	45	18	5½	6.50	41.35	46	18	5½	6.50	45.50	54	18	5½	6.65	46.45	55	18	5½	6.65	47.45	61	18	5½	6.85

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

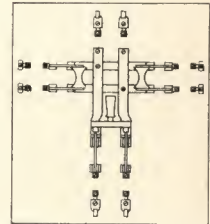
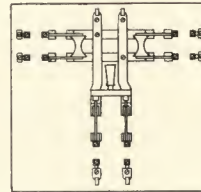
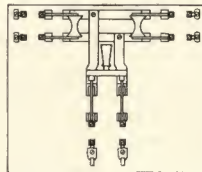
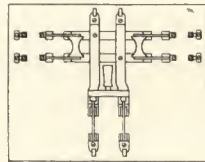
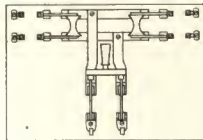
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS ARRANGED FOR OPEN LINK FUSES

TWO-WIRE MAINS, DOUBLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES

WITH MAIN SWITCH



125 VOLTS

No. of Cir.	Cat. No.	FORM L				FORM L-2				FORM F				FORM FL				FORM F-2			
		List Price	SIZE			List Price	SIZE			List Price	SIZE			List Price	SIZE			List Price	SIZE		
			L	W	D		L	W	D		L	W	D		L	W	D		L	W	D
2	63101	\$6.10	14	15	4 1/2	\$2.40	\$6.90	14	15	4 1/2	\$2.40	\$6.85	14	15	4 1/2	\$2.40	\$7.65	14	15	4 1/2	\$2.70
4	63102	9.20	17	15	4 1/2	2.90	10.00	19	15	4 1/2	2.90	9.95	17	15	4 1/2	2.90	11.00	19	15	4 1/2	3.20
6	63103	13.20	22	15	4 1/2	3.40	14.00	22	15	4 1/2	3.40	14.20	22	15	4 1/2	3.40	15.00	22	15	4 1/2	3.70
8	63104	16.30	25	15	4 1/2	4.00	17.10	27	15	4 1/2	3.90	17.30	25	15	4 1/2	3.90	19.60	28	15	4 1/2	4.20
10	63105	19.40	28	15	4 1/2	4.40	20.35	30	15	4 1/2	4.40	20.40	28	15	4 1/2	4.40	22.70	31	15	4 1/2	4.70
12	63106	23.70	33	15	4 1/2	4.85	24.65	37	15	5 1/2	4.85	26.20	34	15	4 1/2	4.85	30.00	39	15	5 1/2	5.15
14	63107	26.80	36	15	4 1/2	5.25	27.75	40	15	5 1/2	5.25	29.30	37	15	4 1/2	5.25	33.10	42	15	5 1/2	5.55
16	63108	29.90	39	15	4 1/2	5.65	30.85	43	15	5 1/2	5.65	32.40	41	15	4 1/2	5.65	36.20	45	15	5 1/2	5.95
18	63109	39.00	46	15	5 1/2	6.05	40.35	47	15	5 1/2	6.05	44.50	48	15	5 1/2	6.05	45.45	49	15	5 1/2	6.35
20	63110	42.10	49	15	5 1/2	6.45	43.45	50	15	5 1/2	6.45	47.60	51	15	5 1/2	6.45	48.55	52	15	5 1/2	6.75
22	63111	45.20	52	15	5 1/2	6.85	46.55	53	15	5 1/2	6.85	50.70	54	15	5 1/2	6.85	51.65	55	15	5 1/2	7.15
24	63112	48.30	55	15	5 1/2	7.25	49.65	59	15	6	7.25	53.80	57	15	5 1/2	7.25	61.25	63	15	6	7.55
26	63113	51.40	59	15	5 1/2	7.60	52.75	62	15	6	7.60	56.90	61	15	5 1/2	7.60	64.35	66	15	6	7.90
28	63114	54.50	62	15	5 1/2	7.95	55.85	66	15	6	7.95	60.00	64	15	5 1/2	7.95	67.45	69	15	6	8.25
30	63115	57.60	65	15	5 1/2	8.30	58.95	69	15	6	8.30	63.10	67	15	5 1/2	8.30	70.55	72	15	6	8.60

250 VOLTS

2	63116	\$6.90	16	18	5 1/2	\$2.65	\$7.70	16	18	5 1/2	\$2.65	\$7.65	16	18	5 1/2	\$2.65	\$8.45	16	18	5 1/2	\$2.65	\$9.20	20	18	5 1/2	\$2.80
4	63117	10.80	20	18	5 1/2	3.15	11.60	23	18	5 1/2	3.15	11.55	20	18	5 1/2	3.15	12.60	23	18	5 1/2	3.15	13.35	27	18	5 1/2	3.30
6	63118	15.60	26	18	5 1/2	3.65	16.40	27	18	5 1/2	3.65	16.60	26	18	5 1/2	3.65	17.40	27	18	5 1/2	3.65	18.15	31	18	5 1/2	3.80
8	63119	19.50	30	18	5 1/2	4.15	20.30	32	18	5 1/2	4.15	20.50	30	18	5 1/2	4.15	22.80	33	18	5 1/2	4.15	23.55	37	18	5 1/2	4.30
10	63120	23.40	34	18	5 1/2	4.65	24.35	36	18	5 1/2	4.65	24.40	34	18	5 1/2	4.65	26.70	37	18	5 1/2	4.65	27.45	41	18	5 1/2	4.80
12	63121	28.50	40	18	5 1/2	5.10	29.45	43	18	5 1/2	5.10	31.00	40	18	5 1/2	5.10	34.80	45	18	5 1/2	5.10	35.80	50	18	5 1/2	5.25
14	63122	32.40	43	18	5 1/2	5.55	33.35	47	18	5 1/2	5.55	34.90	44	18	5 1/2	5.55	38.70	49	18	5 1/2	5.55	39.70	54	18	5 1/2	5.65
16	63123	36.30	47	18	5 1/2	6.00	37.25	51	18	5 1/2	6.00	38.80	48	18	5 1/2	6.00	42.60	53	18	5 1/2	6.00	43.60	58	18	5 1/2	6.15
18	63124	46.20	53	18	5 1/2	6.45	47.55	55	18	5 1/2	6.45	51.70	55	18	5 1/2	6.45	52.65	57	18	5 1/2	6.45	53.65	62	18	5 1/2	6.60
20	63125	50.10	57	18	5 1/2	6.90	51.45	58	18	5 1/2	6.90	55.60	59	18	5 1/2	6.90	56.55	60	18	5 1/2	6.90	57.55	66	18	5 1/2	7.05

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

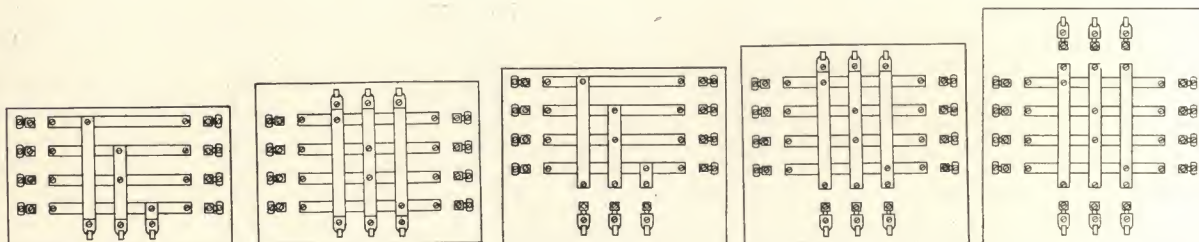
NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES

WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

		FORM L				FORM L-2				FORM F				FORM FL				FORM F-2			
No. of Cir.	Cat. No.	List Price	SIZE			List Price	SIZE			List Price	SIZE			List Price	SIZE			List Price	SIZE		
			L	W	D		L	W	D		L	W	D		L	W	D		L	W	D
2	63186	\$3.00	7	13	4 1/2	\$2.00	7	13	4 1/2	\$2.00	11	13	4 1/2	\$2.35	11	13	4 1/2	\$2.35	16	13	4 1/2
4	63187	5.00	10	13	4 1/2	2.50	10	13	4 1/2	2.50	14	13	4 1/2	2.85	14	13	4 1/2	2.85	19	13	4 1/2
6	63188	7.00	13	13	4 1/2	3.00	13	13	4 1/2	3.00	17	13	4 1/2	3.35	17	13	4 1/2	3.35	22	13	4 1/2
8	63189	9.00	16	13	4 1/2	3.50	16	13	4 1/2	3.60	20	13	4 1/2	3.85	22	13	4 1/2	3.85	27	13	4 1/2
10	63190	11.00	19	13	4 1/2	4.00	19	13	4 1/2	4.10	23	13	4 1/2	4.35	25	13	4 1/2	4.35	30	13	4 1/2
12	63191	13.00	22	13	4 1/2	4.50	22	13	4 1/2	4.60	28	13	4 1/2	4.80	28	13	4 1/2	4.80	33	14	4 1/2
14	63192	15.00	25	13	4 1/2	4.95	25	13	4 1/2	5.05	31	13	4 1/2	5.25	31	13	4 1/2	5.25	36	13	4 1/2
16	63193	17.00	28	13	4 1/2	5.35	29	13	4 1/2	5.45	34	13	4 1/2	5.70	37	13	4 1/2	5.70	42	13	4 1/2
18	63194	19.00	32	13	4 1/2	5.80	32	13	4 1/2	5.80	37	13	4 1/2	6.15	40	13	4 1/2	6.15	45	13	4 1/2
20	63195	21.00	35	13	4 1/2	6.20	35	13	4 1/2	6.20	40	13	4 1/2	6.55	44	13	4 1/2	6.55	48	13	4 1/2
22	63196	23.00	38	13	4 1/2	6.60	38	13	4 1/2	6.70	47	13	4 1/2	6.85	47	13	4 1/2	6.85	53	13	4 1/2
24	63197	25.00	41	13	4 1/2	7.00	42	13	4 1/2	7.10	50	13	4 1/2	7.25	53	13	4 1/2	7.25	59	13	4 1/2
26	63198	27.00	44	13	4 1/2	7.35	46	13	4 1/2	7.50	53	13	4 1/2	7.60	56	13	4 1/2	7.60	62	13	4 1/2
28	63199	29.00	47	13	4 1/2	7.70	49	13	4 1/2	7.90	56	13	4 1/2	7.95	59	13	4 1/2	7.95	65	13	4 1/2
30	63200	31.00	51	13	4 1/2	8.05	52	13	4 1/2	8.30	59	13	4 1/2	8.30	62	13	4 1/2	8.30	68	13	4 1/2

		THREE-WIRE BRANCHES																			
No. of Cir.	Cat. No.	List Price	SIZE			List Price	SIZE			List Price	SIZE			List Price	SIZE			List Price	SIZE		
			L	W	D		L	W	D		L	W	D		L	W	D		L	W	D
2	63201	\$4.00	8	13	4 1/2	\$2.10	10	13	4 1/2	\$2.10	12	13	4 1/2	\$2.40	14	13	4 1/2	\$2.40	16	13	4 1/2
4	63202	7.00	13	13	4 1/2	2.60	14	13	4 1/2	2.60	17	13	4 1/2	2.90	19	13	4 1/2	2.90	22	13	4 1/2
6	63203	10.00	18	13	4 1/2	3.10	19	13	4 1/2	3.10	23	13	4 1/2	3.40	24	13	4 1/2	3.40	27	13	4 1/2
8	63204	13.00	23	13	4 1/2	3.60	24	13	4 1/2	3.60	28	13	4 1/2	3.90	32	13	4 1/2	3.90	34	13	4 1/2
10	63205	16.00	28	13	4 1/2	4.10	29	13	4 1/2	4.10	33	13	4 1/2	4.40	37	13	4 1/2	4.40	39	13	4 1/2

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbleized slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbleized slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

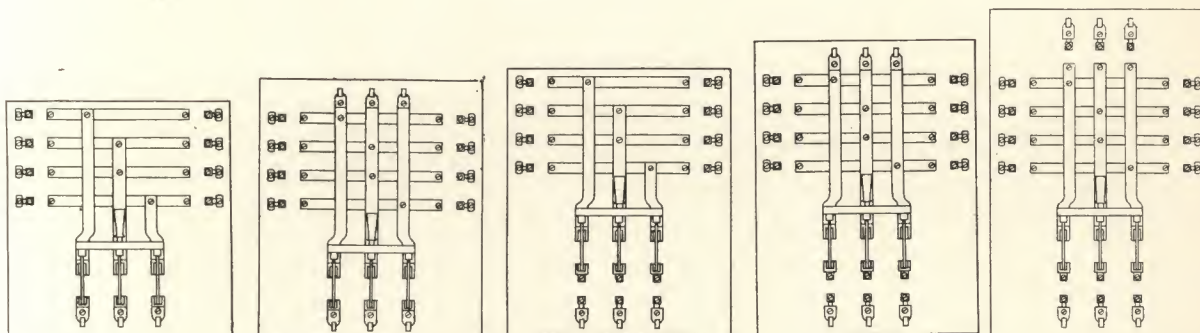
Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS **ARRANGED FOR OPEN LINK FUSES** **THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES** **WITH MAIN SWITCH**



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	63246	\$5.80	14	13	4 1/2	\$2.40	\$7.00	14	13	4 1/2	\$2.40	\$6.90	14	13	4 1/2	\$2.40	\$8.10	14	13	4 1/2	\$2.40	\$9.20	18	13	4 1/2	\$2.60
4	63247	7.80	17	13	4 1/2	2.90	9.00	17	13	4 1/2	2.90	8.90	17	13	4 1/2	2.90	10.10	17	13	4 1/2	2.90	11.20	22	13	4 1/2	3.10
6	63248	9.80	20	13	4 1/2	3.40	11.00	20	13	4 1/2	3.40	10.90	20	13	4 1/2	3.40	12.10	20	13	4 1/2	3.40	13.20	25	13	4 1/2	3.60
8	63249	11.80	23	13	4 1/2	3.90	13.00	25	13	4 1/2	3.90	12.90	23	13	4 1/2	3.90	14.40	25	13	4 1/2	3.90	15.50	30	13	4 1/2	4.10
10	63250	13.80	26	13	4 1/2	4.40	15.00	28	13	4 1/2	4.40	14.90	26	13	4 1/2	4.40	16.40	28	13	4 1/2	4.40	17.50	33	13	4 1/2	4.60
12	63251	17.05	31	13	4 1/2	4.85	18.25	31	13	4 1/2	4.85	18.45	31	13	4 1/2	4.85	19.65	31	13	4 1/2	4.85	21.05	36	13	4 1/2	5.05
14	63252	19.05	34	13	4 1/2	5.25	20.25	34	13	4 1/2	5.25	20.45	34	13	4 1/2	5.25	23.75	33	13	4 1/2	5.25	25.15	39	13	4 1/2	5.45
16	63253	21.05	37	13	4 1/2	5.65	22.25	39	13	4 1/2	5.65	22.45	37	13	4 1/2	5.65	25.75	41	13	4 1/2	5.65	27.15	45	13	4 1/2	5.85
18	63254	23.05	40	13	4 1/2	6.05	24.40	42	13	4 1/2	6.05	24.45	40	13	4 1/2	6.05	27.90	44	13	4 1/2	6.05	29.30	49	13	4 1/2	6.25
20	63255	25.05	44	13	4 1/2	6.45	26.40	45	13	4 1/2	6.45	26.45	44	13	4 1/2	6.45	29.90	47	13	4 1/2	6.45	31.30	52	13	4 1/2	6.65
22	63256	28.75	48	13	4 1/2	6.85	30.10	49	13	4 1/2	6.85	32.25	50	13	4 1/2	6.85	33.60	50	13	4 1/2	6.85	36.10	56	13	4 1/2	7.05
24	63257	30.75	51	13	4 1/2	7.25	32.10	56	13	5 1/2	7.25	34.25	53	13	4 1/2	7.25	39.80	58	13	5 1/2	7.25	43.30	64	13	5 1/2	7.40
26	63258	32.75	55	13	4 1/2	7.60	34.10	59	13	5 1/2	7.60	36.25	56	13	4 1/2	7.60	41.80	61	13	5 1/2	7.60	45.30	67	13	5 1/2	7.75
28	63259	34.75	58	13	4 1/2	7.95	36.10	62	13	5 1/2	7.95	38.25	59	13	4 1/2	7.95	43.80	64	13	5 1/2	7.95	47.30	70	13	5 1/2	8.10
30	63260	36.75	61	13	4 1/2	8.30	38.10	65	13	5 1/2	8.30	40.25	63	13	4 1/2	8.30	45.80	67	13	5 1/2	8.30	49.30	73	13	5 1/2	8.45

THREE-WIRE BRANCHES

2	63261	\$6.80	15	13	4 1/2	\$2.50	\$8.00	16	13	4 1/2	\$2.50	\$7.90	15	13	4 1/2	\$2.50	\$9.10	16	13	4 1/2	\$2.50	\$10.20	19	13	4 1/2	\$2.70
4	63262	9.80	20	13	4 1/2	3.00	11.00	23	13	4 1/2	3.00	10.90	20	13	4 1/2	3.00	12.40	23	13	4 1/2	3.00	13.50	25	13	4 1/2	3.20
6	63263	14.05	26	13	4 1/2	3.50	15.25	27	13	4 1/2	3.50	15.45	26	13	4 1/2	3.50	16.65	27	13	4 1/2	3.50	17.75	30	13	4 1/2	3.70
8	63264	17.05	31	13	4 1/2	4.00	18.25	32	13	4 1/2	4.00	18.45	31	13	4 1/2	4.00	21.75	35	13	4 1/2	4.00	22.85	38	13	4 1/2	4.20
10	63265	20.05	36	13	4 1/2	4.50	21.40	38	13	4 1/2	4.50	21.45	36	13	4 1/2	4.50	24.75	40	13	4 1/2	4.50	25.85	42	13	4 1/2	4.70

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbleized slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbleized slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

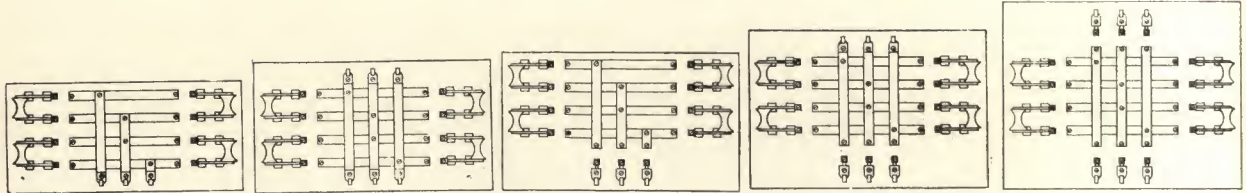
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

FORM L								FORM L-2				FORM F				FORM FL				FORM F-2						
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63206	\$4.45	7	17	4½	\$2.20	\$5.65	7	17	4½	\$2.20	\$5.55	11	17	4½	\$2.40	\$6.75	11	17	4½	\$2.40	\$7.85	16	17	4½	\$2.55
4	63207	7.90	10	17	4½	2.70	9.10	10	17	4½	2.70	9.00	14	17	4½	2.90	10.20	14	17	4½	2.90	11.30	19	17	4½	3.05
6	63208	11.35	13	17	4½	3.20	12.55	13	17	4½	3.20	12.45	17	17	4½	3.40	13.65	17	17	4½	3.40	14.75	22	17	4½	3.55
8	63209	14.80	16	17	4½	3.70	16.00	16	17	4½	3.70	15.90	20	17	4½	3.90	17.40	22	17	4½	3.90	18.50	27	17	4½	4.05
10	63210	18.25	19	17	4½	4.20	19.45	19	17	4½	4.20	19.35	23	17	4½	4.40	20.85	25	17	4½	4.40	21.95	30	17	4½	4.55
12	63211	21.70	22	17	4½	4.70	22.90	22	17	4½	4.70	23.10	28	17	4½	4.85	24.30	28	17	4½	4.85	25.70	33	17	4½	5.00
14	63212	25.15	25	17	4½	5.15	26.35	25	17	4½	5.15	26.55	31	17	4½	5.25	29.85	31	17	4½	5.25	31.25	36	17	4½	5.40
16	63213	28.60	28	17	4½	5.55	29.80	29	17	4½	5.55	30.00	34	17	4½	5.65	33.30	37	17	4½	5.65	34.70	42	17	4½	5.80
18	63214	32.05	32	17	4½	6.00	33.40	32	17	4½	6.00	33.45	37	17	4½	6.05	36.90	40	17	4½	6.05	38.30	45	17	4½	6.20
20	63215	35.45	35	17	4½	6.40	36.80	35	17	4½	6.40	36.85	40	17	4½	6.45	40.30	44	17	4½	6.45	41.70	48	17	4½	6.60
22	63216	38.90	38	17	4½	6.80	40.25	38	17	4½	6.80	42.40	47	17	4½	6.85	43.75	47	17	4½	6.85	47.25	53	17	4½	7.00
24	63217	42.35	41	17	4½	7.20	43.70	42	17	4½	7.20	45.85	50	17	4½	7.25	51.40	53	17	4½	7.25	54.90	59	17	4½	7.40
26	63218	45.80	44	17	4½	7.55	47.15	46	17	4½	7.55	49.30	53	17	4½	7.60	54.85	56	17	4½	7.60	58.35	62	17	4½	7.75
28	63219	49.25	47	17	4½	7.90	50.60	49	17	4½	7.90	52.75	56	17	4½	7.95	58.30	59	17	4½	7.95	61.80	65	17	4½	8.10
30	63220	52.70	51	17	4½	8.25	54.05	52	17	4½	8.25	56.20	59	17	4½	8.30	61.75	62	17	4½	8.30	65.25	68	17	4½	8.45

THREE-WIRE BRANCHES																										
2	63221	\$6.20	8	17	4½	\$2.40	\$7.40	10	17	4½	\$2.40	\$7.30	12	17	4½	\$2.55	\$8.50	14	17	4½	\$2.55	\$9.60	16	17	4½	\$2.75
4	63222	11.40	13	17	4½	2.90	12.60	14	17	4½	2.90	12.60	17	17	4½	3.05	14.00	19	17	4½	3.05	15.10	22	17	4½	3.25
6	63223	16.60	18	17	4½	3.40	17.80	19	17	4½	3.40	18.00	23	17	4½	3.55	19.20	24	17	4½	3.55	20.30	27	17	4½	3.75
8	63224	21.80	23	17	4½	3.90	23.00	24	17	4½	3.90	23.20	28	17	4½	4.05	26.50	32	17	4½	4.05	26.60	34	17	4½	4.25
10	63225	27.00	28	17	4½	4.40	28.35	29	17	4½	4.40	28.40	33	17	4½	4.55	31.70	37	17	4½	4.55	32.80	39	17	4½	4.75

THREE-WIRE BRANCHES

2	63221	\$6.20	8	17	4½	\$2.40	\$7.40	10	17	4½	\$2.40	\$7.30	12	17	4½	\$2.55	\$8.50	14	17	4½	\$2.55	\$9.60	16	17	4½	\$2.75
4	63222	11.40	13	17	4½	2.90	12.60	14	17	4½	2.90	12.60	17	17	4½	3.05	14.00	19	17	4½	3.05	15.10	22	17	4½	3.25
6	63223	16.60	18	17	4½	3.40	17.80	19	17	4½	3.40	18.00	23	17	4½	3.55	19.20	24	17	4½	3.55	20.30	27	17	4½	3.75
8	63224	21.80	23	17	4½	3.90	23.00	24	17	4½	3.90	23.20	28	17	4½	4.05	26.50	32	17	4½	4.05	26.60	34	17	4½	4.25
10	63225	27.00	28	17	4½	4.40	28.35	29	17	4½	4.40	28.40	33	17	4½	4.55	31.70	37	17	4½	4.55	32.80	39	17	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbleized slate with satin finished metal parts, add 15 per cent.
No. 5—For marbleized slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

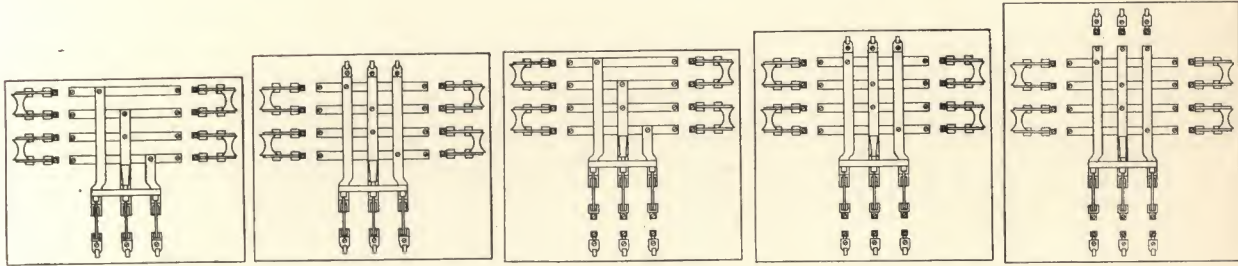
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	FORM L					FORM L-2					FORM F					FORM FL					FORM F-2				
		List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63266	\$7.25	14	17	4½	\$2.50	\$8.45	14	17	4½	\$2.50	\$8.35	14	17	4½	\$2.50	\$9.55	14	17	4½	\$2.50	\$9.65	18	17	4½	\$2.80
4	63267	10.70	17	17	4½	3.00	11.90	17	17	4½	3.00	11.80	17	17	4½	3.00	13.00	17	17	4½	3.00	14.10	22	17	4½	3.30
6	63268	14.15	20	17	4½	3.50	15.35	20	17	4½	3.50	15.25	20	17	4½	3.50	16.45	20	17	4½	3.50	17.55	25	17	4½	3.80
8	63269	17.60	23	17	4½	4.00	18.80	25	17	4½	4.00	18.70	23	17	4½	4.00	20.20	25	17	4½	4.00	20.30	30	17	4½	4.30
10	63270	21.05	26	17	4½	4.50	22.25	28	17	4½	4.50	22.15	26	17	4½	4.50	23.65	28	17	4½	4.50	24.75	33	17	4½	4.80
12	63271	25.75	31	17	4½	4.95	26.95	31	17	4½	4.95	27.15	31	17	4½	4.95	28.35	31	17	4½	4.95	29.75	36	17	4½	5.25
14	63272	29.20	34	17	4½	5.35	30.40	34	17	4½	5.35	30.60	34	17	4½	5.35	33.90	34	17	4½	5.35	35.30	39	17	4½	5.65
16	63273	32.65	37	17	4½	5.75	33.85	39	17	4½	5.75	34.05	37	17	4½	5.75	37.35	41	17	4½	5.75	38.75	45	17	4½	6.05
18	63274	36.10	40	17	4½	6.15	37.45	42	17	4½	6.15	37.50	40	17	4½	6.15	40.95	44	17	4½	6.15	42.35	49	17	4½	6.45
20	63275	39.50	44	17	4½	6.55	40.85	45	17	4½	6.55	40.90	44	17	4½	6.55	44.35	47	17	4½	6.55	45.75	52	17	4½	6.85
22	63276	44.65	48	17	4½	6.95	46.00	49	17	4½	6.95	48.15	50	17	4½	6.95	49.50	50	17	4½	6.95	53.00	56	17	4½	7.25
24	63277	48.10	51	17	4½	7.35	49.45	56	17	5½	7.35	51.60	53	17	4½	7.35	57.15	58	17	5½	7.35	60.65	64	17	5½	7.65
26	63278	51.55	55	17	4½	7.70	51.90	59	17	5½	7.70	55.05	56	17	4½	7.70	60.60	61	17	5½	7.70	64.10	67	17	5½	8.00
28	63279	55.00	58	17	4½	8.05	56.35	62	17	5½	8.05	58.50	59	17	4½	8.05	64.05	64	17	5½	8.05	67.55	70	17	5½	8.35
30	63280	58.45	61	17	4½	8.40	59.80	65	17	5½	8.40	61.95	63	17	4½	8.40	67.50	67	17	5½	8.40	71.00	73	17	5½	8.70

THREE-WIRE BRANCHES																										
No. of Cir.	Cat. No.	List Price	SIZE			List Price	List Price	SIZE			List Price	List Price	SIZE			List Price	List Price	SIZE			List Price	List Price	SIZE			List Price
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63281	\$9.00	15	17	4½	\$2.75	\$10.20	16	17	4½	\$2.75	\$10.10	15	17	4½	\$2.75	\$11.30	16	17	4½	\$2.75	\$12.40	19	17	4½	\$2.90
4	63282	14.20	20	17	4½	3.25	15.40	23	17	4½	3.25	15.30	20	17	4½	3.25	16.80	23	17	4½	3.25	17.90	25	17	4½	3.40
6	63283	20.65	26	17	4½	3.75	21.85	27	17	4½	3.75	22.05	26	17	4½	3.75	23.25	27	17	4½	3.75	24.35	30	17	4½	3.90
8	63284	25.85	31	17	4½	4.25	27.05	32	17	4½	4.25	27.25	31	17	4½	4.25	30.55	35	17	4½	4.25	31.65	38	17	4½	4.40
10	63285	31.05	36	17	4½	4.75	32.40	38	17	4½	4.75	32.45	36	17	4½	4.75	35.75	40	17	4½	4.75	36.85	42	17	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For plain enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

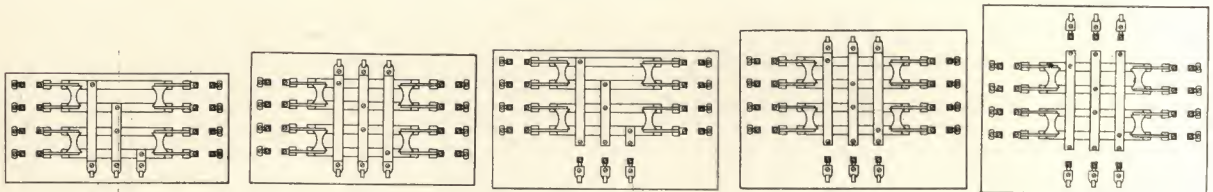
Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS
ARRANGED FOR OPEN LINK FUSES
THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D	
2	63226	\$4.45	7	17	4½	\$2.20	\$5.65	7	17	4½	\$2.20	\$5.55	11	17	4½	\$2.40	\$6.75	11	17	4½	\$2.40
4	63227	7.90	10	17	4½	2.70	9.10	10	17	4½	2.70	9.00	14	17	4½	2.30	10.20	14	17	4½	2.30
6	63228	11.35	13	17	4½	3.20	12.55	13	17	4½	3.20	12.45	17	17	4½	3.40	13.65	17	17	4½	3.40
8	63229	14.80	16	17	4½	3.70	16.00	16	17	4½	3.70	15.90	20	17	4½	3.90	17.40	22	17	4½	3.90
10	63230	18.25	19	17	4½	4.20	19.45	19	17	4½	4.20	19.35	23	17	4½	4.40	20.85	25	17	4½	4.40
12	63231	21.70	22	17	4½	4.70	22.90	22	17	4½	4.70	23.10	28	17	4½	4.85	24.30	28	17	4½	4.85
14	63232	25.15	25	17	4½	5.15	26.35	25	17	4½	5.15	26.55	31	17	4½	5.25	29.85	31	17	4½	5.25
16	63233	28.60	28	17	4½	5.65	29.80	29	17	4½	5.65	30.00	34	17	4½	5.65	33.30	37	17	4½	5.65
18	63234	32.05	32	17	4½	6.00	33.40	32	17	4½	6.00	33.45	37	17	4½	6.05	36.90	40	17	4½	6.05
20	63235	35.45	35	17	4½	6.40	36.80	35	17	4½	6.40	36.85	40	17	4½	6.45	40.30	44	17	4½	6.45
22	63236	38.90	38	17	4½	6.80	40.25	38	17	4½	6.80	42.40	47	17	4½	6.85	43.75	47	17	4½	6.85
24	63237	42.35	41	17	4½	7.20	43.70	42	17	4½	7.20	45.85	50	17	4½	7.25	51.40	53	17	4½	7.25
26	63238	45.80	44	17	4½	7.55	47.15	46	17	4½	7.55	49.30	53	17	4½	7.60	54.85	56	17	4½	7.60
28	63239	49.25	47	17	4½	7.90	50.60	49	17	4½	7.90	52.75	56	17	4½	7.95	58.30	59	17	4½	7.95
30	63240	52.70	51	17	4½	8.25	54.05	52	17	4½	8.25	56.20	59	17	4½	8.30	61.75	62	17	4½	8.30

THREE-WIRE BRANCHES

2	63241	\$6.20	8	17	4½	\$2.40	\$7.40	10	17	4½	\$2.40	\$7.30	12	17	4½	\$2.55	\$8.50	14	17	4½	\$2.55	\$9.60	16	17	4½	\$2.75
4	63242	11.40	13	17	4½	2.90	12.60	14	17	4½	2.90	12.60	17	17	4½	3.05	14.00	19	17	4½	3.05	15.10	22	17	4½	3.25
6	63243	16.60	18	17	4½	3.40	17.80	19	17	4½	3.40	18.00	23	17	4½	3.55	19.20	24	17	4½	3.55	20.30	27	17	4½	3.75
8	63244	21.80	23	17	4½	3.90	23.00	24	17	4½	3.90	23.20	28	17	4½	4.05	26.50	32	17	4½	4.05	26.60	34	17	4½	4.25
10	63245	27.00	28	17	4½	4.40	28.35	29	17	4½	4.40	28.40	33	17	4½	4.55	31.70	37	17	4½	4.55	32.80	39	17	4½	4.75

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

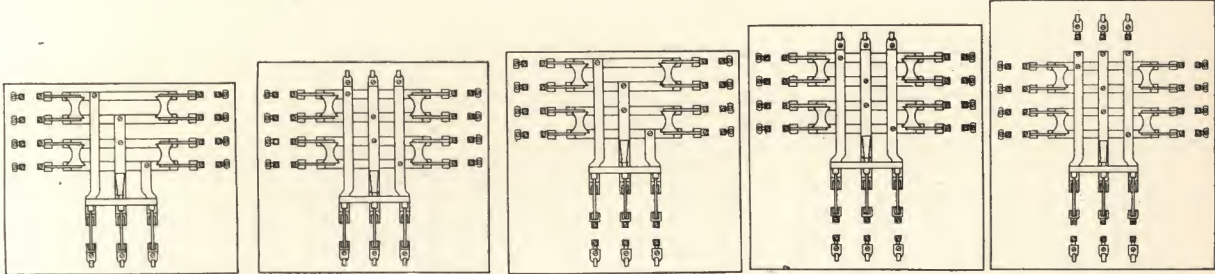
CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE:—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, DOUBLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

		FORM L					FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63286	\$7.25	14	17	4½	\$2.50	\$8.45	14	17	4½	\$2.50	\$8.35	14	17	4½	\$2.50	\$9.55	14	17	4½	\$2.50	\$9.65	18	17	4½	\$2.80
4	63287	10.70	17	17	4½	3.00	11.90	17	17	4½	3.00	11.80	17	17	4½	3.00	13.00	17	17	4½	3.00	14.10	22	17	4½	3.30
6	63288	14.15	20	17	4½	3.50	15.35	20	17	4½	3.50	15.25	20	17	4½	3.50	16.45	20	17	4½	3.50	17.55	25	17	4½	3.80
8	63289	17.60	23	17	4½	4.00	18.80	25	17	4½	4.00	18.70	23	17	4½	4.00	20.20	25	17	4½	4.00	20.30	30	17	4½	4.30
10	63290	21.05	26	17	4½	4.50	22.25	28	17	4½	4.50	22.15	26	17	4½	4.50	23.65	28	17	4½	4.50	24.75	33	17	4½	4.80
12	63291	25.75	31	17	4½	4.95	26.95	31	17	4½	4.95	27.15	31	17	4½	4.95	28.35	31	17	4½	4.95	29.75	36	17	4½	5.25
14	63292	29.20	34	17	4½	5.35	30.40	34	17	4½	5.35	30.60	34	17	4½	5.35	33.90	34	17	4½	5.35	35.30	39	17	4½	5.65
16	63293	32.65	37	17	4½	5.75	33.85	39	17	4½	5.75	34.05	37	17	4½	5.75	37.35	41	17	4½	5.75	38.75	45	17	4½	6.05
18	63294	36.10	40	17	4½	6.15	37.45	42	17	4½	6.15	37.50	40	17	4½	6.15	40.95	44	17	4½	6.15	42.35	49	17	4½	6.45
20	63295	39.50	44	17	4½	6.55	40.85	45	17	4½	6.55	40.90	44	17	4½	6.55	44.35	47	17	4½	6.55	45.75	52	17	4½	6.85
22	63296	44.65	48	17	4½	6.95	46.00	49	17	4½	6.95	48.15	50	17	4½	6.95	49.50	50	17	4½	6.95	53.00	56	17	4½	7.25
24	63297	48.10	51	17	4½	7.35	49.45	56	17	5½	7.35	51.60	53	17	4½	7.35	57.15	58	17	5½	7.35	60.65	64	17	5½	7.65
26	63298	51.55	55	17	4½	7.70	51.90	59	17	5½	7.70	55.05	56	17	4½	7.70	60.60	61	17	5½	7.70	64.10	67	17	5½	8.00
28	63299	55.00	58	17	4½	8.05	56.35	62	17	5½	8.05	58.50	59	17	4½	8.05	64.05	64	17	5½	8.05	67.55	70	17	5½	8.35
30	63300	58.45	61	17	4½	8.40	59.80	65	17	5½	8.40	61.95	63	17	4½	8.40	67.50	67	17	5½	8.40	71.00	73	17	5½	8.70

		THREE-WIRE BRANCHES																								
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63301	\$9.00	15	17	4½	\$2.75	\$10.20	16	17	4½	\$2.75	\$10.10	15	17	4½	\$2.75	\$11.30	16	17	4½	\$2.75	\$12.40	19	17	4½	\$2.90
4	63302	14.20	20	17	4½	3.25	15.40	23	17	4½	3.25	15.30	20	17	4½	3.25	16.80	23	17	4½	3.25	17.90	25	17	4½	3.40
6	63303	20.65	26	17	4½	3.75	21.85	27	17	4½	3.75	22.05	26	17	4½	3.75	23.25	27	17	4½	3.75	24.35	30	17	4½	3.90
8	63304	25.85	31	17	4½	4.25	27.05	32	17	4½	4.25	27.25	31	17	4½	4.25	30.55	35	17	4½	4.25	31.65	38	17	4½	4.40
10	63305	31.05	36	17	4½	4.75	32.40	38	17	4½	4.75	32.45	36	17	4½	4.75	35.75	40	17	4½	4.75	36.85	42	17	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

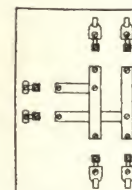
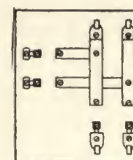
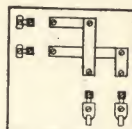
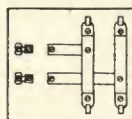
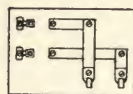
Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS
ARRANGED FOR OPEN LINK FUSES
TWO-WIRE MAINS, SINGLE BRANCH, WITHOUT CIRCUIT SWITCHES
WITHOUT MAIN SWITCH



125 VOLTS

FORM L								FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	List Price	SIZE			Extra for Slate for Frame	
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D		
2	62914	\$2.95	10	8	4½	\$2.00	\$3.75	10	8	4½	\$2.00	\$3.70	14	8	4½	\$2.25	\$4.50	14	8	4½	\$2.25	\$5.25	17	8	4½	\$2.35	
4	62915	4.90	16	8	4½	2.50	5.70	16	8	4½	2.50	5.65	20	8	4½	2.75	6.70	22	8	4½	2.75	7.45	24	8	4½	2.85	
6	62916	6.95	22	8	4½	3.00	7.75	23	8	4½	3.00	7.95	28	8	4½	3.25	8.75	28	8	4½	3.25	9.50	31	8	4½	3.35	
8	62917	8.90	29	8	4½	3.50	9.70	29	8	4½	3.50	9.90	34	8	4½	3.75	12.20	38	8	4½	3.75	12.95	40	8	4½	3.85	
10	62918	10.85	35	8	4½	4.00	11.80	35	8	4½	4.00	11.85	40	8	4½	4.25	14.15	44	8	4½	4.25	14.90	46	8	4½	4.35	
250 VOLTS																											
2	62919	\$3.45	12	9	4½	\$2.20	\$4.25	12	9	4½	\$2.20	\$4.20	16	9	4½	\$2.35	\$5.00	16	9	4½	\$2.35	\$5.75	20	9	4½	\$2.60	
4	62920	5.90	20	9	4½	2.70	6.70	21	9	4½	2.70	6.65	23	9	4½	2.85	7.70	26	9	4½	2.85	8.45	30	9	4½	3.10	
6	62921	8.35	28	9	4½	3.20	9.15	29	9	4½	3.20	9.35	33	9	4½	3.35	10.15	34	9	4½	3.35	10.90	38	9	4½	3.60	
8	62922	10.80	36	9	4½	3.70	11.60	37	9	4½	3.70	11.80	41	9	4½	3.85	14.10	45	9	4½	3.85	14.85	48	9	4½	4.10	
10	62923	13.25	43	9	4½	4.20	14.20	45	9	4½	4.20	14.25	49	9	4½	4.35	16.55	52	9	4½	4.35	17.65	56	9	4½	4.60	

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

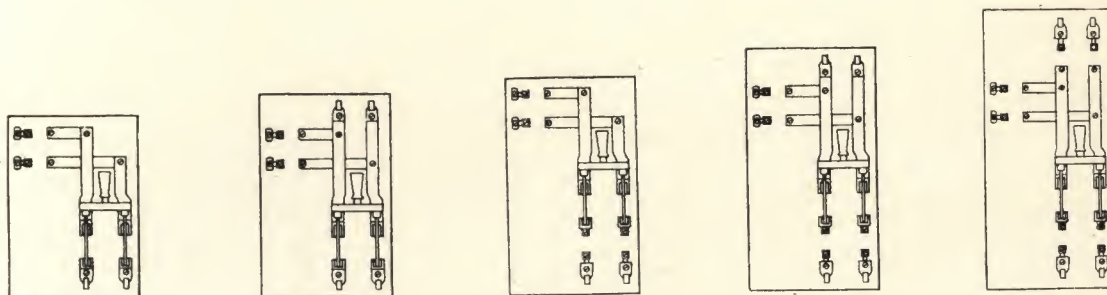
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS **ARRANGED FOR OPEN LINK FUSES** **TWO-WIRE MAINS, SINGLE BRANCH, WITHOUT CIRCUIT SWITCHES** **WITH MAIN SWITCH**



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62944	\$4.95	17	8	4½	\$2.30	\$5.75	17	8	4½	\$2.30	\$5.70	17	8	4½	\$2.30	\$6.50	17	8	4½	\$2.30	\$7.25	19	8	4½	\$2.50
4	62946	6.90	23	8	4½	2.80	7.70	25	8	4½	2.80	7.65	23	8	4½	2.80	8.70	25	8	4½	2.80	7.65	27	8	4½	3.00
6	62947	9.85	31	8	4½	3.30	10.65	31	8	4½	3.30	10.85	31	8	4½	3.30	11.65	31	8	4½	3.30	12.40	34	8	4½	3.50
8	62948	11.80	37	8	4½	3.80	12.60	39	8	4½	3.80	12.80	37	8	4½	3.80	15.10	41	8	4½	3.80	15.95	43	8	4½	4.00
10	62949	13.75	44	8	4½	4.30	14.70	46	8	4½	4.30	14.75	44	8	4½	4.30	17.05	47	8	4½	4.30	17.80	49	8	4½	4.50

250 VOLTS

2	62950	\$5.45	20	9	4½	\$2.40	\$6.25	20	9	4½	\$2.40	\$6.20	20	9	4½	\$2.40	\$7.00	20	9	4½	\$2.40	\$7.75	24	9	4½	\$2.60
4	62951	7.90	28	9	4½	2.90	8.70	31	9	4½	2.90	8.65	27	9	4½	2.90	9.70	30	9	4½	2.90	10.45	34	9	4½	3.10
6	62952	11.25	38	9	4½	3.40	12.05	38	9	4½	3.40	12.25	38	9	4½	3.40	13.05	38	9	4½	3.40	13.80	42	9	4½	3.60
8	62953	13.70	45	9	4½	3.90	14.50	48	9	4½	3.90	14.70	45	9	4½	3.90	17.00	49	9	4½	3.90	17.75	53	9	4½	4.10
10	62954	16.15	53	9	4½	4.40	17.10	56	9	4½	4.40	17.15	53	9	4½	4.40	19.50	57	9	4½	4.40	20.25	60	9	4½	4.60

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbleized slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbleized slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

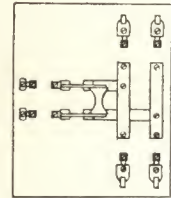
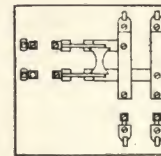
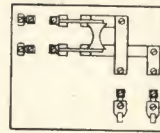
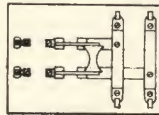
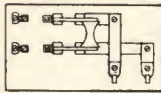
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS
ARRANGED FOR OPEN LINK FUSES
TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITHOUT MAIN SWITCH



125 VOLTS

FORM L								FORM L-2				FORM F				FORM FL				FORM F-2						
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62924	\$4.20	10	10	4½	\$2.10	\$5.00	10	10	4½	\$2.10	\$4.95	14	10	4½	\$2.30	\$5.75	14	10	4½	\$2.30	\$6.50	17	10	4½	\$2.45
4	62925	7.40	16	10	4½	2.60	8.20	16	10	4½	2.60	8.15	20	10	4½	2.80	9.20	22	10	4½	2.80	9.95	24	10	4½	2.95
6	62926	10.70	22	10	4½	3.10	11.50	23	10	4½	3.10	11.70	28	10	4½	3.30	12.50	28	10	4½	3.30	13.25	31	10	4½	3.45
8	62927	13.90	29	10	4½	3.60	14.70	29	10	4½	3.60	14.90	34	10	4½	3.80	17.20	38	10	4½	3.80	17.95	40	10	4½	3.95
10	62928	17.10	35	10	4½	4.10	18.05	35	10	4½	4.10	18.10	40	10	4½	4.30	20.40	44	10	4½	4.30	21.15	46	10	4½	4.45
250 VOLTS																										
2	62929	\$4.85	12	12	5½	\$2.30	\$5.65	12	12	5½	\$2.30	\$5.60	16	12	5½	\$2.45	\$6.40	16	12	5½	\$2.45	\$7.15	20	12	5½	\$2.65
4	62930	8.70	20	12	5½	2.80	9.50	21	12	5½	2.80	9.45	23	12	5½	2.95	10.50	26	12	5½	2.95	11.25	30	12	5½	2.95
6	62931	12.55	28	12	5½	3.30	13.35	29	12	5½	3.30	13.55	33	12	5½	3.45	14.35	34	12	5½	3.45	15.10	38	12	5½	3.45
8	62932	16.40	36	12	5½	3.80	17.20	37	12	5½	3.80	17.40	41	12	5½	3.95	19.70	45	12	5½	3.95	20.45	48	12	5½	3.95
10	62933	20.25	43	12	5½	4.30	21.20	45	12	5½	4.30	21.25	49	12	5½	4.35	23.55	52	12	5½	4.45	24.30	56	12	5½	4.45

250 VOLTS

2	62929	\$4.85	12	12	5½	\$2.30	\$5.65	12	12	5½	\$2.30	\$5.60	16	12	5½	\$2.45	\$6.40	16	12	5½	\$2.45	\$7.15	20	12	5½	\$2.65	\$7.15	20	12	5½	\$2.65	\$7.15
4	62930	8.70	20	12	5½	2.80	9.50	21	12	5½	2.80	9.45	23	12	5½	2.95	10.50	26	12	5½	2.95	11.25	30	12	5½	2.95	12.50	36	12	5½	3.10	12.50
6	62931	12.55	28	12	5½	3.30	13.35	29	12	5½	3.30	13.55	33	12	5½	3.45	14.35	34	12	5½	3.45	15.10	38	12	5½	3.45	16.40	45	12	5½	3.60	16.40
8	62932	16.40	36	12	5½	3.80	17.20	37	12	5½	3.80	17.40	41	12	5½	3.95	19.70	45	12	5½	3.95	20.45	48	12	5½	3.95	22.05	56	12	5½	4.10	22.05
10	62933	20.25	43	12	5½	4.30	21.20	45	12	5½	4.30	21.25	49	12	5½	4.35	23.55	52	12	5½	4.45	24.30	56	12	5½	4.45	26.40	66	12	5½	4.60	26.40

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbleized slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbleized slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

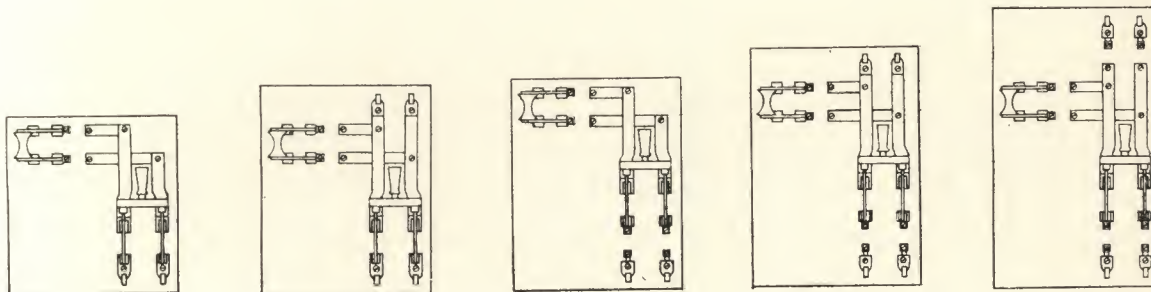
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITH MAIN SWITCH



125 VOLTS

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame					
2	62955	\$6.20	17	10	4½	\$2.40	\$7.00	17	10	4½	\$2.40	\$6.95	17	10	4½	\$2.40	\$7.75	17	10	4½	\$2.40	\$8.50	19	10	4½	\$2.70
4	62956	9.40	23	10	4½	2.90	10.20	25	10	4½	2.90	10.15	23	10	4½	2.90	11.20	25	10	4½	2.90	11.95	27	10	4½	3.20
6	62957	13.60	31	10	4½	3.40	13.40	31	10	4½	3.40	14.60	31	10	4½	3.40	15.40	31	10	4½	3.40	16.15	34	10	4½	3.70
8	62958	16.80	37	10	4½	3.90	17.60	39	10	4½	3.90	17.80	37	10	4½	3.90	20.10	41	10	4½	3.90	20.85	43	10	4½	4.20
10	62959	20.00	44	10	4½	4.40	20.95	46	10	4½	4.40	21.00	44	10	4½	4.40	23.30	47	10	4½	4.40	24.05	49	10	4½	4.70
250 VOLTS																										
2	62960	\$6.85	20	12	5½	\$2.65	\$7.65	20	12	5½	\$2.65	\$7.60	20	12	5½	\$2.65	\$8.40	20	12	5½	\$2.65	\$9.15	24	12	5½	\$2.80
4	62961	10.70	28	12	5½	3.15	11.50	31	12	5½	3.15	11.45	27	12	5½	3.15	12.50	30	12	5½	3.15	13.25	34	12	5½	3.30
6	62962	15.45	38	12	5½	3.65	16.25	38	12	5½	3.65	16.45	38	12	5½	3.65	17.25	38	12	5½	3.65	18.00	42	12	5½	3.80
8	62963	19.30	45	12	5½	4.15	20.10	48	12	5½	4.15	20.30	45	12	5½	4.15	22.60	49	12	5½	4.15	23.35	53	12	5½	4.30
10	62964	23.15	53	12	5½	4.65	24.10	56	12	5½	4.65	24.15	53	12	5½	4.65	26.45	57	12	5½	4.65	27.20	60	12	5½	4.80

No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

Prices listed above do not include fuses. For fuses see page 229.

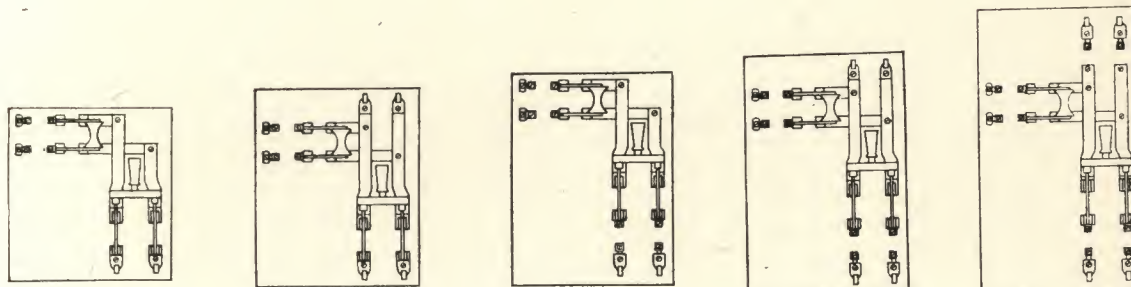
Branches, 30 Amp. Mains, 6 Amps. per circuit.

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel. The depth inside is given in column "D" above.

Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel. The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS
ARRANGED FOR OPEN LINK FUSES
TWO-WIRE MAINS, SINGLE BRANCH, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITH MAIN SWITCH



125 VOLTS

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	62966	\$6.20	17	10	4½	\$2.40	\$7.00	17	10	4½	\$2.40	\$6.95	17	10	4½	\$2.40	\$7.75	17	10	4½	\$2.40	\$8.50	19	10	4½	\$2.70
4	62967	9.40	23	10	4½	2.90	10.20	25	10	4½	2.90	10.15	23	10	4½	2.90	11.20	25	10	4½	2.90	11.95	27	10	4½	3.20
6	62968	13.60	31	10	4½	3.40	13.40	31	10	4½	3.40	14.60	31	10	4½	3.40	15.40	31	10	4½	3.40	16.15	34	10	4½	3.70
8	62969	16.80	37	10	4½	3.90	17.60	39	10	4½	3.90	17.80	37	10	4½	3.90	20.10	41	10	4½	3.90	20.85	43	10	4½	4.20
10	62970	20.00	44	10	4½	4.40	20.95	46	10	4½	4.40	21.00	44	10	4½	4.40	23.30	47	10	4½	4.40	24.05	49	10	4½	4.70

250 VOLTS

2	62971	\$6.85	20	12	5½	\$2.65	\$7.65	20	12	5½	\$2.65	\$7.60	20	12	5½	\$2.65	\$8.40	20	12	5½	\$2.65	\$9.15	24	12	5½	\$2.80
4	62972	10.70	28	12	5½	3.15	11.50	31	12	5½	3.15	11.45	27	12	5½	3.15	12.50	30	12	5½	3.15	13.25	34	12	5½	3.30
6	62973	15.45	38	12	5½	3.65	16.25	38	12	5½	3.65	16.45	38	12	5½	3.65	17.25	38	12	5½	3.65	18.00	42	12	5½	3.80
8	62974	19.30	45	12	5½	4.15	20.10	48	12	5½	4.15	20.30	45	12	5½	4.15	22.60	49	12	5½	4.15	23.35	53	12	5½	4.30
10	62975	23.15	53	12	5½	4.65	24.10	56	12	5½	4.65	24.15	53	12	5½	4.65	26.45	57	12	5½	4.65	27.20	60	12	5½	4.80

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

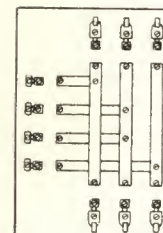
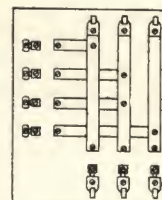
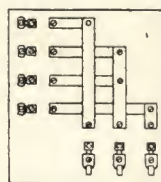
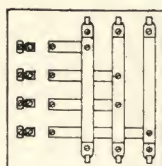
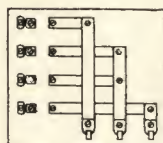
Branches, 30 Amp. Mains, 6 Amps. per circuit.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS **ARRANGED FOR OPEN LINK FUSES** **THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES** **WITHOUT MAIN SWITCH**



TWO-WIRE BRANCHES

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D	
2	63126	\$3.10	9	10	4½	\$2.10	\$4.30	10	10	4½	\$2.10	\$4.20	14	10	4½	\$2.35	\$5.40	14	10	4½	\$2.35	\$6.50	18	10	4½	\$2.45
4	63127	5.20	16	10	4½	2.60	6.40	16	10	4½	2.60	6.30	20	10	4½	2.85	7.50	20	10	4½	2.85	8.60	24	10	4½	2.95
6	63128	7.30	22	10	4½	3.10	8.50	23	10	4½	3.10	8.40	26	10	4½	3.35	9.60	27	10	4½	3.35	9.70	30	10	4½	3.45
8	63129	9.40	28	10	4½	3.60	10.60	29	10	4½	3.60	10.50	33	10	4½	3.85	12.00	35	10	4½	3.85	13.10	38	10	4½	3.95
10	63130	11.50	34	10	4½	4.10	12.70	35	10	4½	4.10	12.60	39	10	4½	4.35	14.10	41	10	4½	4.35	15.20	44	10	4½	4.45
THREE-WIRE BRANCHES																										
2	63131	\$4.15	13	10	4½	\$2.30	\$5.35	13	10	4½	\$2.30	\$5.25	17	10	4½	\$2.45	\$6.45	17	10	4½	\$2.45	\$7.55	20	10	4½	\$2.70
4	63132	7.30	22	10	4½	2.80	8.50	23	10	4½	2.80	8.40	26	10	4½	2.95	9.90	28	10	4½	2.95	11.00	31	10	4½	3.20
6	63133	10.45	32	10	4½	3.30	11.65	32	10	4½	3.30	11.85	37	10	4½	3.45	13.05	38	10	4½	3.45	14.15	40	10	4½	3.70
8	63134	13.60	41	10	4½	3.80	14.80	41	10	4½	3.80	15.00	47	10	4½	3.95	18.30	50	10	4½	3.95	19.40	52	10	4½	4.20
10	63135	17.05	50	10	4½	4.30	18.40	51	10	4½	4.30	18.45	56	10	4½	4.45	21.75	59	10	4½	4.45	22.85	62	10	4½	4.70

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons. For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel. The depth inside is given in column "D" above.

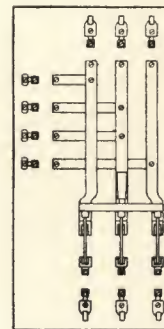
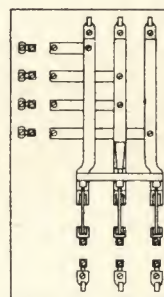
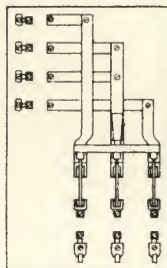
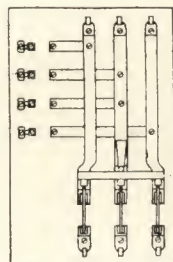
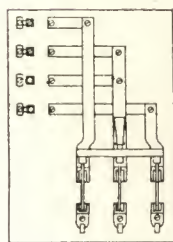
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel. The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITHOUT CIRCUIT SWITCHES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame
			L	W	D			L	W	D			L	W	D			L	W	D	
2	63156	\$5.90	17	10	4½	\$2.40	\$7.10	17	10	4½	\$2.40	\$6.00	17	10	4½	\$2.40	\$8.20	17	10	4½	\$2.40
4	63157	8.00	23	10	4½	2.90	9.20	23	10	4½	2.90	9.10	23	10	4½	2.90	10.30	23	10	4½	2.90
6	63158	10.10	29	10	4½	3.40	11.30	29	10	4½	3.40	11.20	29	10	4½	3.40	12.40	30	10	4½	3.40
8	63159	12.20	35	10	4½	3.90	13.40	38	10	4½	3.90	13.30	35	10	4½	3.90	14.80	38	10	4½	3.90
10	63160	14.30	42	10	4½	4.40	15.50	44	10	4½	4.40	15.40	42	10	4½	4.40	16.90	44	10	4½	4.40

THREE-WIRE BRANCHES

2	63161	\$6.95	20	10	4½	\$2.50	\$8.15	20	10	4½	\$2.50	\$8.05	20	10	4½	\$2.50	\$9.25	20	10	4½	\$2.50
4	63162	10.10	29	10	4½	3.00	11.30	31	10	4½	3.00	11.20	29	10	4½	3.00	12.70	32	10	4½	3.00
6	63163	14.50	40	10	4½	3.50	15.70	41	10	4½	3.50	15.90	40	10	4½	3.50	17.10	41	10	4½	3.50
8	63164	17.65	50	10	4½	4.00	18.85	52	10	4½	4.00	19.05	50	10	4½	4.00	22.35	53	10	4½	4.00
10	63165	21.10	59	10	4½	4.50	22.45	61	10	4½	4.50	22.50	59	10	4½	4.50	25.80	63	10	4½	4.50

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

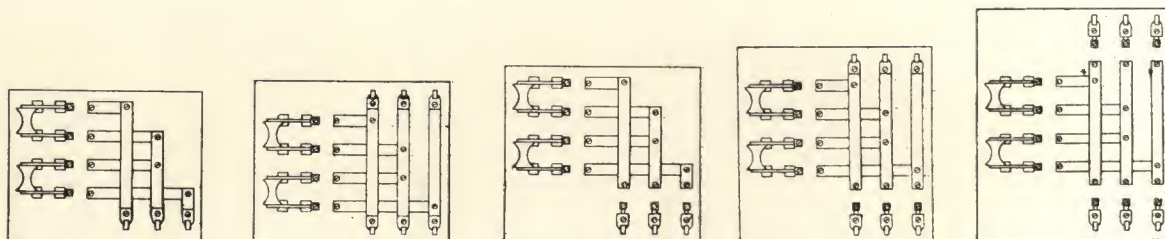
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

FORM L								FORM L-2					FORM F					FORM FL					FORM F-2				
No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame	
2	63136	\$4.35	9	12	4½	\$2.20	\$5.55	10	12	4½	\$2.20	\$5.45	14	12	4½	\$2.40	\$6.65	14	12	4½	\$2.40	\$7.75	18	12	4½	\$2.55	
4	63137	7.70	16	12	4½	2.70	8.90	16	12	4½	2.70	8.80	20	12	4½	2.90	10.00	20	12	4½	2.90	11.10	24	12	4½	3.05	
6	63138	11.05	22	12	4½	3.20	12.25	23	12	4½	3.20	12.15	26	12	4½	3.40	13.35	27	12	4½	3.40	14.45	30	12	4½	3.55	
8	63139	14.40	28	12	4½	3.70	15.60	29	12	4½	3.70	15.50	33	12	4½	3.90	17.00	35	12	4½	3.90	18.10	38	12	4½	4.05	
10	63140	17.75	34	12	4½	4.20	18.95	35	12	4½	4.20	18.85	39	12	4½	4.40	20.35	41	12	4½	4.40	21.45	44	12	4½	4.55	
THREE-WIRE BRANCHES																											
2	63141	\$6.00	13	12	4½	\$2.40	\$7.20	13	12	4½	\$2.40	\$7.10	17	12	4½	\$2.55	\$8.30	17	12	4½	\$2.55	\$9.40	20	12	4½	\$2.75	
4	63142	11.00	22	12	4½	2.90	12.20	23	12	4½	2.90	12.10	26	12	4½	3.05	13.60	28	12	4½	3.05	14.70	31	12	4½	3.25	
6	63143	15.00	32	12	4½	3.40	16.20	32	12	4½	3.40	16.40	37	12	4½	3.55	17.60	38	12	4½	3.55	18.70	40	12	4½	3.75	
8	63144	20.00	41	12	4½	3.90	21.20	41	12	4½	3.90	21.40	47	12	4½	4.05	26.70	50	12	4½	4.05	27.80	52	12	4½	4.25	
10	63145	25.00	50	12	4½	4.40	26.35	51	12	4½	4.40	26.40	56	12	4½	4.55	29.70	59	12	4½	4.55	30.80	62	12	4½	4.75	

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

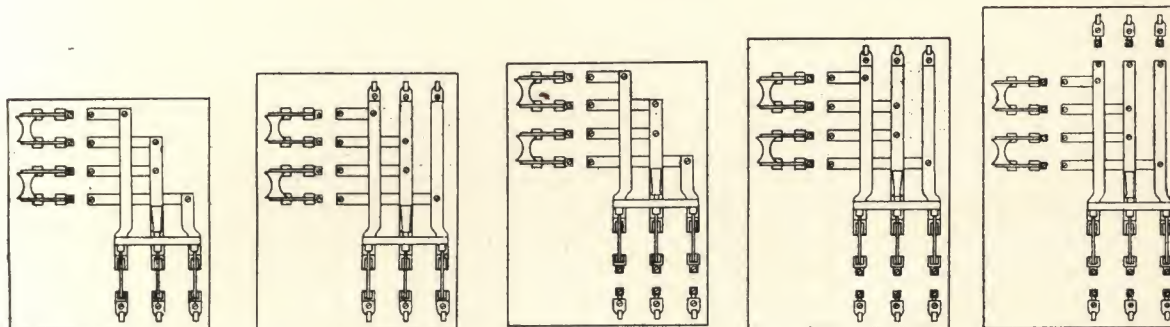
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES OUTSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

FORM L

FORM L-2

FORM F

FORM FL

FORM F-2

No. of Cir.	Cat. No.	List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE				List Price	SIZE			
			L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame		L	W	D	Extra for Slate Frame
2	63166	\$7.15	17	12	4½	\$2.50	\$8.35	17	12	4½	\$2.50	\$8.25	17	12	4½	\$2.50	\$9.45	17	12	4½	\$2.50	\$10.55	20	12	4½	\$2.80
4	63167	10.50	23	12	4½	3.00	11.70	23	12	4½	3.00	11.60	23	12	4½	3.00	12.80	23	12	4½	3.00	13.90	27	12	4½	3.30
6	63168	13.85	29	12	4½	3.50	15.05	29	12	4½	3.50	14.95	29	12	4½	3.50	16.15	30	12	4½	3.50	17.25	33	12	4½	3.80
8	63169	17.20	35	12	4½	4.00	18.40	38	12	4½	4.00	18.30	35	12	4½	4.00	19.80	38	12	4½	4.00	20.90	41	12	4½	4.30
10	63170	20.55	42	12	4½	4.50	21.75	44	12	4½	4.50	21.65	42	12	4½	4.50	23.15	44	12	4½	4.50	24.25	47	12	4½	4.80

THREE-WIRE BRANCHES

2	63171	\$8.80	20	12	4½	\$2.75	\$11.00	20	12	4½	\$2.75	\$9.90	20	12	4½	\$2.75	\$11.10	20	12	4½	\$2.75	\$12.20	23	12	4½	\$2.90
4	63172	13.80	29	12	4½	3.25	15.00	31	12	4½	3.25	14.90	29	12	4½	3.25	16.40	32	12	4½	3.25	17.50	34	12	4½	3.40
6	63173	19.05	40	12	4½	3.75	20.25	41	12	4½	3.75	20.45	40	12	4½	3.75	21.65	41	12	4½	3.75	22.75	43	12	4½	3.90
8	63174	24.05	50	12	4½	4.25	25.25	52	12	4½	4.25	25.45	50	12	4½	4.25	28.75	53	12	4½	4.25	29.85	56	12	4½	4.40
10	63175	29.05	59	12	4½	4.75	30.40	61	12	4½	4.75	30.45	59	12	4½	4.75	33.75	63	12	4½	4.75	34.85	65	12	4½	4.90

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amps. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

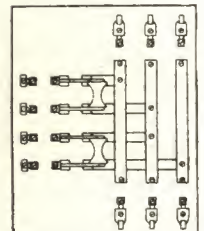
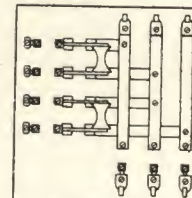
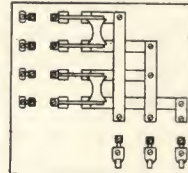
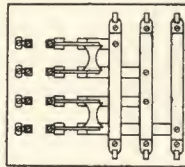
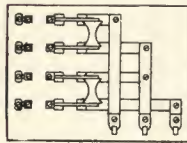
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
The depth inside is given in column "D" above.
Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITHOUT MAIN SWITCH



TWO-WIRE BRANCHES

FORM L							FORM L-2							FORM F							FORM FL							FORM F-2						
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame								
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D									
2	63146	\$4.35	9	12	4½	\$2.20	\$5.55	10	12	4½	\$2.20	\$5.45	14	12	4½	\$2.40	\$6.65	14	12	4½	\$2.40	\$7.75	18	12	4½	\$2.55								
4	63147	7.70	16	12	4½	2.70	8.90	16	12	4½	2.70	8.80	20	12	4½	2.90	10.00	20	12	4½	2.90	11.10	24	12	4½	3.05								
6	63148	11.05	22	12	4½	3.20	12.25	23	12	4½	3.20	12.15	26	12	4½	3.40	13.35	27	12	4½	3.40	14.45	30	12	4½	3.55								
8	63149	14.40	28	12	4½	3.70	15.60	29	12	4½	3.70	15.50	33	12	4½	3.90	17.00	35	12	4½	3.90	18.10	38	12	4½	4.05								
10	63150	17.75	34	12	4½	4.20	18.95	35	12	4½	4.20	18.85	39	12	4½	4.40	20.35	41	12	4½	4.40	21.45	44	12	4½	4.55								
THREE-WIRE BRANCHES																																		
2	63151	\$6.00	13	12	4½	\$2.40	\$7.20	13	12	4½	\$2.40	\$7.10	17	12	4½	\$2.55	\$8.30	17	12	4½	\$2.55	\$9.40	20	12	4½	\$2.75								
4	63152	11.00	22	12	4½	2.90	12.20	23	12	4½	2.90	12.10	26	12	4½	3.05	13.60	28	12	4½	3.05	14.70	31	12	4½	3.25								
6	63153	15.00	32	12	4½	3.40	16.20	32	12	4½	3.40	16.40	37	12	4½	3.55	17.60	38	12	4½	3.55	18.70	40	12	4½	3.75								
8	63154	20.00	41	12	4½	3.90	21.20	41	12	4½	3.90	21.40	47	12	4½	4.05	26.70	50	12	4½	4.05	27.80	52	12	4½	4.25								
10	63155	25.00	50	12	4½	4.40	26.35	51	12	4½	4.40	26.40	56	12	4½	4.55	29.70	59	12	4½	4.55	30.80	62	12	4½	4.75								

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

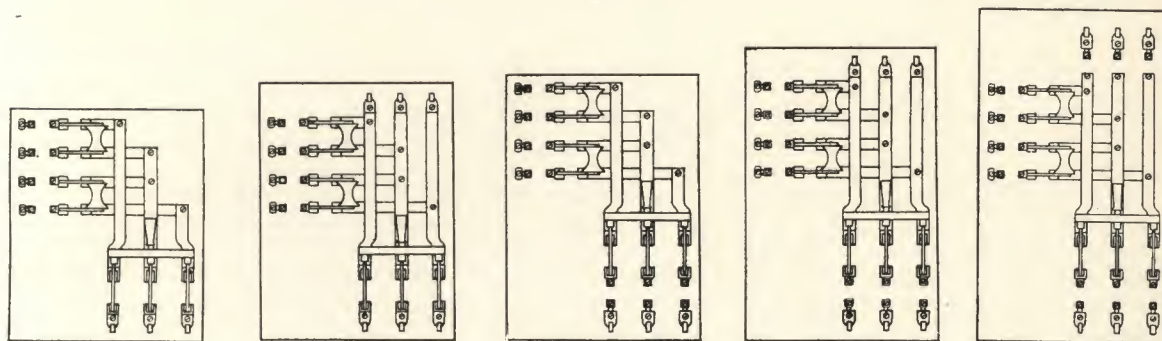
Wood cabinets are listed on pages 222-224 and are 8 in. larger overall than panel.
 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE:—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

PANEL BOARDS

ARRANGED FOR OPEN LINK FUSES

THREE-WIRE MAINS, SINGLE BRANCH, 125 VOLTS, WITH CIRCUIT SWITCHES INSIDE OF FUSES
WITH MAIN SWITCH



TWO-WIRE BRANCHES

FORM L							FORM L-2					FORM F					FORM FL					FORM F-2					
No. of Cir.	Cat. No.	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	List Price	SIZE			Extra for Slate Frame	
			L	W	D			L	W	D			L	W	D			L	W	D			L	W	D		
2	63176	\$7.15	17	12	4½	\$2.50	\$8.35	17	12	4½	\$2.50	\$8.25	17	12	4½	\$2.50	\$9.45	17	12	4½	\$2.50	\$10.55	20	12	4½	\$2.80	
4	63177	10.50	23	12	4½	3.00	11.70	23	12	4½	3.00	11.60	23	12	4½	3.00	12.80	23	12	4½	3.00	13.90	27	12	4½	3.30	
6	63178	13.85	29	12	4½	3.50	15.05	29	12	4½	3.50	14.95	29	12	4½	3.50	16.15	30	12	4½	3.50	17.25	33	12	4½	3.80	
8	63179	17.20	35	12	4½	4.00	18.40	38	12	4½	4.00	18.30	35	12	4½	4.00	19.80	38	12	4½	4.00	20.90	41	12	4½	4.30	
10	63180	20.55	42	12	4½	4.50	21.75	44	12	4½	4.50	21.65	42	12	4½	4.50	23.15	44	12	4½	4.50	24.25	47	12	4½	4.80	
THREE-WIRE BRANCHES																											
2	63181	\$8.80	20	12	4½	\$2.75	\$11.00	20	12	4½	\$2.75	\$9.90	20	12	4½	\$2.75	\$11.10	20	12	4½	\$2.75	\$12.20	23	12	4½	\$2.90	
4	63182	13.80	29	12	4½	3.25	15.00	31	12	4½	3.25	14.90	29	12	4½	3.25	16.40	32	12	4½	3.25	17.50	34	12	4½	3.40	
6	63183	19.05	40	12	4½	3.75	20.25	41	12	4½	3.75	20.45	40	12	4½	3.75	21.65	41	12	4½	3.75	22.75	43	12	4½	3.90	
8	63184	24.05	50	12	4½	4.25	25.25	52	12	4½	4.25	25.45	50	12	4½	4.25	26.75	53	12	4½	4.25	29.85	56	12	4½	4.40	
10	63185	29.05	59	12	4½	4.75	30.40	61	12	4½	4.75	30.45	59	12	4½	4.75	33.75	63	12	4½	4.75	34.85	65	12	4½	4.90	

FINISHES

- No. 1—Plain black slate with satin finished metal parts. This finish is our standard and will be furnished unless otherwise specified.
 No. 2—For plain black slate with metal parts polished and lacquered, add 15 per cent.
 No. 3—For black enameled slate with metal parts polished and lacquered, add 20 per cent.
 No. 4—For marbled slate with satin finished metal parts, add 15 per cent.
 No. 5—For marbled slate with metal parts polished and lacquered, add 20 per cent.
 No. 6—For marble (as ordered) with metal parts polished and lacquered, add 50 per cent.

SLATE FRAME

Prices listed above are for Nos. 1 and 2 finish and include slotting for mains and branches and set of corner irons.
 For No. 3 finish, add 20 per cent. For Nos. 4 and 5 finish, add 20 per cent. For No. 6 finish, add 100 per cent.

FUSES

Prices listed above do not include fuses. For fuses see page 229.

CAPACITY

Branches, 30 Amp. Mains, 6 Amps. per circuit for three-wire branches and 3 Amps. for two-wire branches.

CABINETS

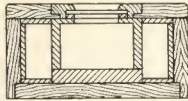
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 The depth inside is given in column "D" above.
 Steel cabinets are listed on pages 225, 226 and are 6 in. larger inside than panel.
 The depth inside is given in column "D" above.

NOTE.—In ordering give Form letter as well as Cat. No. and number of circuits, otherwise Form L panel will be furnished.

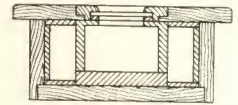
PANEL BOARDS

WOOD CABINETS ASBESTOS LINED

Prices listed are for surface type cabinets with either plain glass or wood panel in door. Cabinets having natural finish and plain glass panel in door is our standard and will be furnished unless otherwise specified.



For flush type cabinets deduct 5 per cent.
 For bevel plate glass in door add 10 per cent.
 For drilling and bushing for entrance wires see page 228.
 For slate door lining see page 227.
 Dimensions given below are 8" larger overall than panel.

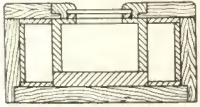


Length in Inches	WIDTH IN INCHES												Length in Inches	WIDTH IN INCHES											
	15	16	17	18	19	20	21	22	23	24	25	26		15	16	17	18	19	20	21	22	23	24	25	26
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
15	17.55	17.70	17.85	18.00	18.15	18.45	18.60	18.75	19.05	19.20	19.35	19.65	53	25.50	26.25	27.00	27.75	28.50	29.25	30.00	30.75	31.50	32.25	33.00	33.75
16	17.70	17.85	18.00	18.30	18.45	18.75	18.90	19.05	19.35	19.65	19.80	19.95	54	25.65	26.40	27.15	28.05	28.80	29.55	30.60	31.05	31.80	32.70	33.45	34.20
17	17.85	18.00	18.15	18.60	18.75	19.05	19.20	19.35	19.65	19.95	21.10	20.25	55	25.80	26.55	27.30	28.35	29.10	29.85	30.90	31.35	32.10	33.00	33.75	34.50
18	18.00	18.30	18.45	18.90	19.05	19.35	19.50	19.65	19.95	20.25	20.55	20.85	56	26.10	26.85	27.60	28.65	29.25	30.00	31.20	31.65	32.40	33.30	34.05	34.80
19	18.15	18.45	18.75	19.05	19.35	19.65	19.80	19.95	20.25	20.55	21.00	21.30	57	26.40	27.00	27.90	28.80	29.40	30.60	31.35	31.95	32.70	33.60	34.35	35.25
20	18.45	18.75	19.05	19.35	19.65	19.95	20.25	19.40	20.70	21.00	21.45	21.75	58	26.55	27.30	28.05	28.95	29.70	30.75	31.50	32.25	33.00	33.90	34.80	35.70
21	18.60	18.90	19.20	19.50	19.95	20.25	20.55	19.70	21.00	21.45	21.75	22.05	59	26.70	27.45	28.35	29.10	30.00	31.05	31.65	32.55	33.45	34.20	35.10	36.00
22	18.75	19.05	19.50	19.80	20.25	20.55	20.85	21.00	21.45	21.75	21.90	22.20	60	26.85	27.75	28.65	29.40	30.30	31.20	31.95	32.85	33.75	34.50	35.40	36.30
23	19.05	19.35	19.65	20.10	20.55	20.85	21.15	21.30	21.75	22.05	22.35	22.65	61	27.00	27.90	28.80	29.55	30.60	31.50	32.25	33.15	34.05	34.95	35.85	36.75
24	19.20	19.50	19.80	20.40	20.85	21.15	21.45	21.60	22.05	22.35	22.65	22.95	62	27.15	28.05	29.10	29.85	30.75	31.80	32.55	33.45	34.35	35.25	36.15	37.05
25	19.35	19.80	20.10	20.55	21.00	21.45	21.75	21.90	22.35	22.65	22.90	23.40	63	27.45	28.20	29.40	30.00	31.05	32.10	32.85	33.75	34.65	35.55	36.45	37.35
26	19.65	19.95	20.25	20.85	21.30	21.75	22.05	22.20	22.65	22.95	23.10	23.70	64	27.60	28.50	29.55	30.30	31.35	32.40	33.15	34.05	34.95	35.85	36.75	37.80
27	20.10	20.25	20.55	21.00	21.60	22.05	22.35	22.50	22.95	23.25	23.55	24.00	65	27.75	28.80	29.70	30.60	31.50	32.70	33.45	34.35	35.25	36.15	37.05	38.10
28	20.25	20.40	20.85	21.30	21.75	22.35	22.65	22.80	23.25	23.70	23.85	24.45	66	28.05	28.95	29.85	30.90	31.80	33.00	33.75	34.65	35.55	36.60	37.35	38.40
29	20.40	20.70	21.15	21.60	22.05	22.65	22.95	23.10	23.55	24.00	24.30	24.75	67	28.35	29.10	30.15	31.20	32.10	33.30	34.05	34.95	35.85	36.90	37.65	38.85
30	20.55	21.00	21.45	21.90	22.35	22.80	23.10	23.55	24.00	24.45	24.60	25.20	68	28.50	29.40	30.45	31.50	32.40	33.60	34.35	35.25	36.15	37.20	37.95	39.30
31	20.70	21.30	21.60	22.05	22.65	23.10	23.40	23.85	24.45	24.75	24.90	25.50	69	28.80	29.70	30.75	31.80	32.70	33.75	34.65	35.55	36.20	37.50	38.25	39.60
32	20.85	21.45	21.75	22.35	22.95	23.40	23.70	24.15	24.75	25.20	25.35	25.95	70	29.10	30.00	31.05	32.10	33.00	34.05	34.95	36.00	36.90	37.95	38.70	39.90
33	21.00	21.75	22.05	22.50	23.25	23.70	24.00	24.45	25.05	25.50	25.65	26.25	71	29.25	30.15	31.20	32.40	33.15	34.35	35.25	36.30	37.20	38.25	39.00	40.20
34	21.30	21.90	22.20	22.80	23.55	24.00	24.30	24.75	25.35	25.80	26.00	26.55	72	29.40	30.30	31.35	32.70	33.30	34.50	35.55	36.60	37.65	38.55	39.45	40.50
35	21.45	22.05	22.50	23.10	23.85	24.30	24.60	25.05	25.65	26.10	26.25	27.00	73	29.70	30.60	31.50	33.00	33.60	34.80	35.95	36.90	37.80	39.00	39.75	40.95
36	21.75	22.20	22.80	23.25	24.00	24.60	24.90	25.35	25.95	26.40	26.70	27.45	74	29.85	30.75	31.80	33.15	33.90	35.10	36.15	37.20	38.25	39.30	40.05	41.25
37	22.05	22.50	23.10	23.55	24.30	24.90	25.20	25.65	26.25	26.70	27.00	27.75	75	30.00	31.05	32.10	33.30	34.20	35.40	36.45	37.50	38.55	39.60	40.35	41.55
38	22.35	22.80	23.25	23.85	24.60	25.05	25.50	25.95	26.55	27.00	27.30	28.05	76	30.15	31.35	32.40	33.45	34.50	35.70	36.75	37.80	38.85	39.90	40.80	42.00
39	22.65	22.95	23.55	24.00	24.90	25.35	25.80	26.25	26.85	27.30	27.45	28.50	77	30.45	31.50	32.70	33.60	34.80	36.00	37.05	38.10	39.15	40.20	41.10	42.45
40	22.80	23.25	23.85	24.15	25.05	25.50	26.10	26.70	27.30	27.75	27.90	28.95	78	30.75	31.80	32.85	33.90	35.10	36.30	37.35	38.40	39.45	40.50	41.55	42.90
41	22.95	23.40	24.00	24.30	25.35	25.80	26.40	27.00	27.75	28.05	28.35	29.25	79	30.90	31.95	33.15	34.20	35.40	36.60	37.65	38.70	39.75	40.80	42.00	43.20
42	23.10	23.55	24.15	24.45	25.65	26.10	26.70	27.30	28.05	28.50	29.10	29.70	80	31.20	32.25	33.45	34.50	35.70	36.75	37.95	39.00	40.20	41.25	42.45	43.50
43	23.40	23.70	24.30	24.75	25.95	26.40	27.00	27.60	28.35	28.80	29.40	30.00	81	31.35	32.40	33.75	34.80	36.00	37.05	38.25	39.30	40.50	41.55	42.90	43.80
44	23.55	24.00	24.60	25.05	26.25	26.70	27.30	27.90	28.65	29.10	29.70	30.45	82	31.50	32.70	34.05	35.10	36.15	37.35	38.55	39.60	40.95	42.00	43.20	44.25
45	23.70	24.15	24.90	25.35	26.55	27.00	27.60	28.20	28.95	29.40	30.00	30.75	83	31.80	33.00	34.35	35.25	36.45	37.50	38.85	39.90	41.25	42.45	43.50	44.55
46	24.00	24.30	25.20	25.65	26.85	27.30	27.90	28.50	29.25	29.70	30.45	31.05	84	31.95	33.15	34.50	35.55	36.75	37.80	39.15	40.20	41.55	42.90	43.95	45.00
47	24.15	24.60	25.50	25.95	27.00	27.60	28.20	28.80	29.55	30.00	30.75	31.50	85	32.10	33.30	34.65	35.85	36.90	38.10	39.45	40.50	42.00	43.20	44.25	45.45
48	24.45	24.90	25.80	26.25	27.15	27.90	28.50	29.10	29.85	30.30	31.20	31.60	86	32.40	33.45	34.80	36.00	37.20	38.40	39.75	40.80	42.30	43.50	44.55	45.90
49	24.60	25.20	25.95	26.55	27.45	28.05	28.80	29.40	30.15	30.60	31.50	31.90	87	32.55	33.75	35.10	36.30	37.50	38.70	40.05	41.10	42.60	43.80	44.85	46.35
50	24.75	25.50	26.25	27.00	27.60	28.35	29.10	29.85	30.45	31.05	31.80	32.55	88	32.85	34.05	35.40	36.45	37.80	39.00	40.35	41.40	42.90	44.10	45.15	46.80
51	24.90	25.80	26.55	27.30	27.90	28.65	29.40	30.15	30.75	31.35	32.10	32.85	89	33.00	34.20	35.55	36.75	37.85	39.30	40.50	41.70	43.20	44.40	45.45	46.95
52	25.30	26.10	26.85	27.60	28.20	28.95	29.70	30.45	31.05	31.65	32.40	33.15	90	33.30	34.50	35.85	37.05	38.25	39.60	40.80	42.15	43.50	44.70	45.90	47.25

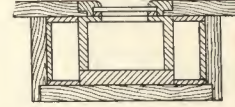
PANEL BOARDS

WOOD CABINETS STEEL LINED

Prices listed are for surface type cabinets with either plain glass or wood panel in door. Cabinets having natural finish and plain glass panel in door is our standard and will be furnished unless otherwise specified.



For flush type cabinets deduct 5 per cent.
 For bevel plate glass in door add 5 per cent.
 For drilling and bushings for entrance wires, see page 228.
 For slate door lining see page 227.
 Dimensions given below are 8 in. larger overall than panel.

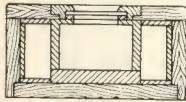


Length in Inches	WIDTH IN INCHES												Length in Inches	WIDTH IN INCHES											
	15	16	17	18	19	20	21	22	23	24	25	26		15	16	17	18	19	20	21	22	23	24	25	26
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
15	20.40	20.65	20.90	21.15	21.40	21.60	21.85	22.10	22.35	22.60	22.85	23.10	53	30.00	30.90	31.80	32.70	33.60	34.50	35.40	36.30	37.20	38.10	39.00	39.90
16	20.65	20.95	21.20	21.50	21.75	21.95	22.15	22.50	22.75	23.00	23.25	23.55	54	30.20	31.15	32.10	33.00	33.85	34.90	35.70	36.70	37.60	38.55	39.45	40.35
17	20.90	21.20	21.55	21.85	22.10	22.30	22.40	22.85	23.15	23.40	23.65	24.00	55	30.40	31.35	32.40	33.30	34.15	35.30	36.00	37.05	38.00	38.95	39.85	40.75
18	21.15	21.55	21.85	22.20	22.40	22.65	22.80	23.20	23.55	23.80	24.00	24.45	56	30.60	31.60	32.70	33.60	34.45	35.70	36.35	37.45	38.40	39.40	40.30	41.20
19	21.40	21.80	22.20	22.50	22.70	23.00	23.20	23.55	23.95	24.20	24.40	24.90	57	30.80	31.85	32.95	33.85	34.75	36.10	36.70	37.85	38.80	39.80	40.75	41.60
20	21.60	22.05	22.50	22.80	23.10	23.40	23.70	24.00	24.30	24.60	24.90	25.50	58	31.00	32.10	33.20	34.15	35.10	36.40	37.00	38.25	39.20	40.25	41.15	42.00
21	21.85	22.30	22.80	23.10	23.45	23.75	24.10	24.40	24.70	25.00	25.35	25.80	59	31.30	32.50	33.50	34.45	35.40	36.65	37.40	38.60	39.60	40.65	41.60	42.45
22	22.10	22.60	23.05	23.40	23.75	24.10	24.45	24.75	25.10	25.45	25.80	26.25	60	31.65	32.70	33.75	34.75	35.75	36.90	37.95	39.00	40.05	41.10	42.00	42.90
23	22.35	22.85	23.35	23.70	24.10	24.45	24.75	25.15	25.50	25.85	26.35	26.70	61	31.90	33.00	34.00	35.10	36.00	37.25	38.25	39.35	40.40	41.45	42.40	43.35
24	22.60	23.15	23.60	24.00	24.40	24.80	25.10	25.65	25.90	26.30	26.80	27.15	62	32.15	33.25	34.30	35.40	36.30	37.65	38.55	39.70	40.80	41.85	42.80	43.75
25	22.85	23.40	23.90	24.30	24.75	25.15	25.50	26.00	26.30	26.75	27.25	27.60	63	32.50	33.50	34.60	35.70	36.60	38.00	38.85	40.05	41.15	42.20	43.20	44.20
26	23.10	23.65	24.15	24.60	25.10	25.55	25.85	26.40	26.70	27.15	27.70	28.05	64	32.75	33.80	34.90	36.00	36.90	38.35	39.15	40.40	41.50	42.60	43.60	44.60
27	23.35	23.95	24.40	24.90	25.40	25.90	26.25	26.80	27.10	27.55	28.15	28.50	65	33.00	34.10	35.20	36.30	37.20	38.70	39.45	40.75	41.90	42.95	44.00	45.05
28	23.60	24.20	24.75	25.20	25.75	26.30	26.60	27.20	28.50	27.95	28.60	28.95	66	33.25	34.35	35.50	36.60	37.50	39.00	39.75	41.10	42.30	43.35	44.40	45.45
29	23.85	24.45	25.05	25.50	26.10	26.65	27.00	27.55	29.90	28.40	29.00	29.40	67	33.50	34.60	35.80	36.90	37.80	39.35	40.10	41.45	42.65	43.75	44.80	45.90
30	24.15	24.75	25.35	25.80	26.40	27.00	27.45	27.90	28.35	28.95	29.40	29.85	68	33.75	34.90	36.10	37.20	38.10	39.65	40.40	41.80	43.00	44.10	45.20	46.30
31	24.40	25.00	25.60	26.10	26.70	27.35	27.75	28.25	28.75	29.35	29.80	30.30	69	34.00	35.20	36.35	37.50	38.50	39.90	40.75	42.10	43.35	44.50	45.60	46.75
32	24.70	25.30	25.90	26.40	27.00	27.65	28.10	28.65	29.15	29.75	30.20	30.75	70	34.35	35.55	36.60	37.80	39.00	40.20	41.10	42.45	43.65	44.85	46.05	47.25
33	24.95	25.55	26.15	26.70	27.30	28.00	28.40	29.00	29.55	30.10	30.60	31.15	71	34.60	35.80	36.90	39.10	39.30	40.50	41.50	42.85	44.00	45.25	46.50	47.65
34	25.25	25.85	26.35	27.00	27.60	28.35	28.75	29.35	29.95	30.50	31.00	31.60	72	34.85	36.10	37.20	39.40	39.60	40.85	41.85	43.25	44.40	45.65	46.90	48.10
35	25.50	26.10	26.60	27.30	27.90	28.65	29.15	29.70	30.35	30.90	31.40	32.00	73	35.10	36.35	37.50	39.70	39.90	41.20	42.25	43.65	44.80	46.00	47.35	48.50
36	25.80	26.40	26.90	27.60	28.20	29.00	29.50	30.00	30.75	31.30	31.80	32.45	74	35.35	36.60	37.75	40.00	40.25	41.55	42.60	44.00	45.20	46.40	47.75	48.95
37	26.05	26.65	27.15	27.90	28.50	29.35	29.80	30.40	31.15	31.70	32.20	32.90	75	35.60	36.85	38.00	40.30	40.55	41.90	43.00	44.40	45.60	46.80	48.20	49.35
38	26.35	26.90	27.50	28.21	28.85	29.65	30.10	30.75	31.55	32.10	32.60	33.35	76	35.85	37.10	38.25	40.60	40.85	42.25	43.35	44.80	46.00	47.20	48.65	49.75
39	26.55	27.15	27.85	28.50	29.05	29.90	30.50	31.10	31.90	32.45	33.00	33.80	77	36.10	37.35	38.50	40.90	41.15	42.55	43.70	45.20	46.40	47.60	49.05	50.20
40	26.85	27.45	28.20	28.80	29.55	30.15	30.90	31.50	32.25	32.85	33.45	34.20	78	36.35	37.60	38.75	40.20	41.50	42.85	44.10	45.60	46.80	48.00	49.50	50.65
41	27.10	27.75	28.50	29.10	29.85	30.45	31.25	31.85	32.60	33.25	33.90	34.65	79	36.50	37.85	39.00	40.50	41.85	43.15	44.50	45.85	47.20	48.40	49.90	51.00
42	27.35	28.00	28.75	29.40	30.20	30.80	31.60	32.20	33.00	33.65	34.30	35.00	80	36.75	38.10	39.45	40.80	42.15	43.50	44.85	46.20	47.55	48.75	50.25	51.45
43	27.60	28.25	29.05	29.70	30.50	31.20	31.95	32.55	33.35	34.00	34.70	35.45	81	37.10	38.40	39.85	41.10	42.45	43.85	45.20	46.55	47.90	49.15	50.65	51.90
44	27.85	28.50	29.30	30.00	30.70	31.55	32.25	32.90	33.75	34.40	35.10	35.90	82	37.25	38.70	40.20	41.40	42.80	44.20	45.50	46.90	48.30	49.50	51.00	52.30
45	28.10	28.75	29.55	30.30	31.00	31.85	32.60	33.30	34.15	34.80	35.50	36.30	83	37.50	39.00	40.50	41.70	43.10	44.55	45.85	47.25	48.65	49.90	51.40	52.75
46	28.30	29.00	29.80	30.60	31.30	32.15	32.95	33.65	34.55	35.20	35.90	36.75	84	37.75	39.25	40.80	42.00	43.45	44.90	46.20	47.60	49.00	50.30	51.80	53.15
47	28.55	29.25	30.05	30.90	31.60	32.45	33.30	34.00	34.95	35.60	36.35	37.20	85	38.00	39.50	41.10	42.30	43.75	45.25	46.50	47.95	49.40	50.70	52.20	53.60
48	28.75	29.50	30.30	31.20	31.90	32.75	33.65	34.40	35.35	36.00	36.75	37.65	86	38.25	39.75	41.35	42.60	44.10	45.60	46.85	48.30	49.80	51.10	52.60	54.00
49	29.00	29.75	30.55	31.50	31.30	33.15	34.00	34.75	35.70	36.40	37.20	38.10	87	38.50	40.00	41.60	42.90	44.40	45.95	47.20	48.65	50.20	51.50	53.00	54.15
50	29.25	30.00	30.90	31.80	32.70	33.45	34.35	35.10	36.00	36.75	37.65	38.55	88	38.75	40.25	41.85	43.20	44.75	46.30	47.50	49.00	50.55	51.90	53.40	54.90
51	29.50	30.25	31.20	32.10	33.00	33.75	34.70	35.50	36.35	37.10	38.10	39.00	89	39.00	40.50	42.10	43.50	45.00	46.60	47.85	49.35	50.85	52.30	53.80	55.35
52	29.75	30.50	31.50	32.40	33.30	34.10	35.00	35.75	36.70	37.50	38.50	39.50	90	39.30	40.80	42.30	43.80	45.30	46.95	48.15	49.65	51.15	52.65	54.15	55.80

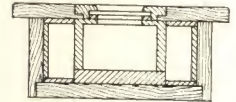
PANEL BOARDS

WOOD CABINETS SLATE LINED

Prices listed are for surface type cabinets with either plain glass or wood panel in door. Cabinets having natural finish and plain glass panel in door is our standard and will be furnished unless otherwise specified.



For flush type cabinets deduct 5 per cent.
 For bevel plate glass in door add 5 per cent.
 For drilling and bushings for entrance wires see page 228.
 Slate door lining furnished with this type of cabinet.
 Dimensions given below are 8 in. larger overall than panel.



Length in Inches	WIDTH IN INCHES												Length in Inches	WIDTH IN INCHES											
	15	16	17	18	19	20	21	22	23	24	25	26		15	16	17	18	19	20	21	22	23	24	25	26
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
15	23.85	24.15	24.60	24.90	25.20	25.65	25.95	26.25	26.70	27.00	27.30	27.90	53	37.20	38.25	39.60	40.80	42.15	43.35	44.40	45.75	46.80	48.30	49.20	50.70
16	24.15	24.55	25.00	25.30	25.65	26.10	26.40	26.75	27.25	27.55	27.90	28.45	54	37.55	38.65	40.00	41.20	42.40	43.80	44.90	46.25	47.35	48.65	49.80	51.20
17	24.60	24.95	25.40	25.70	26.10	26.55	26.90	27.25	27.75	28.05	28.45	29.00	55	37.90	38.90	40.40	41.60	42.70	44.25	45.40	46.75	47.90	48.95	50.45	51.75
18	24.90	25.35	25.80	26.10	26.55	27.00	27.40	27.75	28.25	28.60	29.00	29.55	56	38.25	39.30	40.75	42.00	43.00	44.70	45.85	47.25	48.50	49.30	51.05	52.25
19	25.20	25.75	26.20	26.55	27.00	27.45	27.85	28.25	28.75	29.10	29.60	30.05	57	38.55	39.75	41.15	42.40	43.30	45.15	46.35	47.75	49.10	50.65	51.70	52.70
20	25.65	26.10	26.55	27.00	27.45	27.90	28.35	28.80	29.25	29.70	30.15	30.60	58	38.90	40.10	41.50	42.80	43.60	45.60	46.85	48.30	49.65	51.00	52.30	53.25
21	25.95	26.40	26.95	27.40	27.90	28.35	28.85	29.30	29.80	30.30	30.75	31.20	59	39.25	40.50	41.90	43.30	43.90	46.05	47.35	48.80	50.25	51.50	52.90	53.80
22	26.25	26.80	27.35	27.80	28.35	28.80	29.35	29.80	30.35	30.85	31.35	31.80	60	39.60	40.95	42.30	43.80	45.15	46.50	47.85	49.35	50.85	52.05	53.55	54.45
23	26.70	27.20	27.75	28.20	28.80	29.25	29.85	30.35	30.90	31.40	31.90	32.40	61	39.95	41.30	42.70	44.20	45.55	47.00	48.35	49.90	51.35	52.60	54.10	55.10
24	27.00	27.60	28.15	28.60	29.25	29.75	30.35	30.85	31.45	32.00	32.45	33.00	62	40.30	41.70	43.10	44.60	46.00	47.45	48.85	50.45	51.85	53.25	54.70	55.75
25	27.30	28.00	28.55	29.00	29.70	30.20	30.85	31.45	32.00	32.55	33.00	33.65	63	40.65	42.05	43.50	45.00	46.50	47.90	49.35	51.00	52.35	53.80	55.30	56.35
26	27.90	28.40	29.00	29.40	30.15	30.65	31.35	31.95	32.55	33.10	33.60	34.25	64	41.00	42.45	43.90	45.40	46.90	48.35	49.85	51.55	52.85	54.40	55.85	56.95
27	28.30	28.80	29.40	29.80	30.60	31.10	31.85	32.45	33.10	33.65	34.20	34.85	65	41.35	42.80	44.30	45.80	47.30	48.80	50.35	52.10	53.35	55.00	56.40	57.60
28	28.70	29.20	29.80	30.20	31.05	31.60	32.35	32.95	33.65	34.20	34.80	35.45	66	41.70	43.15	44.70	46.20	47.70	49.25	50.85	52.65	53.90	55.55	57.00	58.25
29	28.85	29.60	30.15	30.70	31.50	32.05	32.85	33.50	34.10	34.80	34.40	36.10	67	42.05	43.50	45.10	46.60	48.10	49.70	51.35	53.20	54.45	56.10	57.60	58.80
30	29.10	29.85	30.45	31.20	31.95	32.55	33.30	34.05	34.65	35.40	36.00	36.75	68	42.40	43.90	45.50	47.00	48.50	50.15	51.85	53.75	55.00	56.70	58.20	59.45
31	29.45	30.10	30.85	31.65	32.40	33.00	33.80	34.55	35.20	36.00	36.60	37.40	69	42.75	44.40	45.90	47.40	49.00	50.65	52.35	54.25	55.60	57.20	58.80	60.15
32	29.80	30.50	31.25	32.05	32.85	33.50	34.30	35.00	35.75	36.55	37.20	38.05	70	43.05	44.70	46.35	47.85	49.50	51.15	52.80	54.75	56.10	57.75	59.40	60.90
33	30.15	30.85	31.65	32.50	33.10	33.95	34.80	35.50	36.30	37.10	37.80	38.70	71	43.40	45.10	46.75	48.20	49.95	51.60	52.30	55.25	56.65	58.30	60.00	61.50
34	30.50	31.20	32.05	32.95	33.75	34.40	35.30	36.00	36.85	37.65	38.40	39.30	72	43.75	45.45	47.15	48.50	50.40	52.05	52.80	55.75	57.20	58.85	60.55	62.10
35	30.85	31.55	32.45	33.35	34.20	34.85	35.80	36.50	37.40	38.20	39.00	39.95	73	44.10	45.85	47.55	48.85	50.85	52.50	53.30	56.25	57.75	59.35	61.10	62.70
36	31.15	31.90	32.85	33.75	34.65	35.40	36.30	37.00	37.95	38.75	39.60	40.60	74	44.45	46.20	47.95	49.20	51.30	53.00	54.75	56.75	58.30	59.90	61.70	63.30
37	31.50	32.25	33.25	34.15	35.00	35.85	36.80	37.50	38.50	39.35	40.20	41.20	75	44.80	46.60	48.30	49.50	51.75	53.45	55.25	57.20	58.85	60.45	62.25	63.95
38	31.85	33.10	33.65	34.55	35.50	36.30	37.30	38.00	39.00	39.95	40.80	41.80	76	45.15	46.95	48.65	49.85	52.20	53.90	55.75	57.70	59.40	61.00	62.85	64.55
39	32.20	33.35	34.05	35.00	35.95	36.75	37.80	38.50	39.50	40.50	41.40	42.45	77	45.50	47.30	49.00	50.20	52.65	54.35	56.20	58.15	59.95	61.55	63.40	65.15
40	32.55	33.60	34.50	35.40	36.30	37.20	38.10	39.00	40.05	40.95	42.00	43.05	78	45.85	47.70	49.40	50.55	53.10	54.80	56.70	58.65	60.50	62.10	64.00	65.75
41	32.90	33.95	34.90	35.95	36.75	37.70	38.60	39.50	40.60	41.50	42.60	43.65	79	46.20	48.05	49.80	50.85	53.55	55.25	57.15	59.05	61.00	62.65	64.55	66.40
42	33.25	33.30	35.30	36.40	37.20	38.10	39.10	40.00	41.10	42.10	43.20	44.25	80	46.50	48.45	50.25	51.05	54.00	55.80	57.60	59.55	61.50	63.15	65.10	67.05
43	33.60	33.65	35.70	36.80	37.65	38.60	39.60	40.60	41.65	42.65	43.75	44.85	81	46.85	48.80	50.65	51.60	54.45	56.30	58.10	60.05	62.00	63.70	65.70	67.65
44	33.95	34.00	36.10	37.20	38.10	39.05	40.10	41.10	42.20	43.15	44.35	45.45	82	47.20	49.15	51.05	52.10	54.90	56.75	58.60	60.60	62.55	64.40	66.25	68.25
45	34.40	34.35	36.50	37.60	38.55	39.50	40.60	41.60	42.75	43.70	44.95	46.05	83	47.55	49.50	51.45	52.65	55.35	57.25	59.10	61.10	63.05	64.95	66.85	68.85
46	34.75	34.70	36.90	38.00	39.00	40.00	41.10	42.10	43.30	44.25	45.50	46.70	84	47.90	49.90	51.85	53.15	55.80	57.70	59.60	61.60	63.60	65.55	67.40	69.45
47	35.10	35.05	37.40	38.40	39.45	40.50	41.60	42.60	43.85	44.70	46.10	47.30	85	48.25	50.25	52.25	53.65	56.25	58.15	60.10	62.10	64.10	66.15	67.95	70.05
48	35.45	35.40	37.80	38.80	39.90	41.00	42.10	43.10	44.40	45.25	46.70	47.90	86	48.60	50.60	52.65	54.20	57.00	58.65	60.50	62.60	64.65	66.70	68.50	70.65
49	35.80	35.80	38.10	39.20	40.35	41.50	42.60	43.70	44.95	45.85	47.25	48.45	87	48.90	51.00	53.05	54.70	58.15	59.10	61.10	63.10	65.15	67.40	69.10	71.25
50	36.00	37.20	38.40	39.60	40.80	42.00	43.05	44.25	45.60	46.50	47.70	48.90	88	49.20	51.35	53.50	55.25	58.60	59.60	61.60	63.60	65.70	67.95	69.60	71.85
51	36.35	37.55	38.80	40.00	41.25	42.50	43.50	44.75	46.10	47.10	48.30	49.50	89	49.55	51.70	53.90	55.70	59.05	60.05	62.05	64.10	66.25	68.40	70.20	72.45
52	36.70	37.90	39.20	40.20	41.70	42.90	44.00	45.25	46.60	47.60	48.90	50.00	90	49.95	52.05	54.30	56.25	58.50	60.55	62.55	64.65	66.75	68.85	70.95	73.05

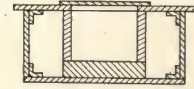
PANEL BOARDS

STEEL BOXES WITH STEEL DOORS AND TRIMS

Prices listed are for either surface or flush type, having plain steel door and trim.



For plain glass panel in door, add 10 per cent.
 For bevel plate glass panel in door, add 20 per cent.
 For drilling and bushings for entrance wires, see page 228.
 For slate door lining, see page 227.
 For steel boxes with wood doors and trim, add 40 per cent.
 Dimensions given below are 6 in. larger inside than panel.

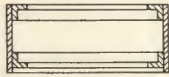


Length in Inches	WIDTH IN INCHES												Length in Inches	WIDTH IN INCHES											
	13	14	15	16	17	18	19	20	21	22	23	24		13	14	15	16	17	18	19	20	21	22	23	24
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
13	15.60	15.90	16.20	16.50	16.80	17.10	17.40	17.70	18.00	18.30	18.60	18.90	51	27.00	28.20	29.25	30.45	31.80	33.00	34.20	35.25	36.45	37.65	38.85	39.90
14	15.90	16.20	16.50	16.95	17.25	17.55	17.85	18.15	18.45	18.75	19.05	19.35	52	27.30	28.50	29.70	30.90	32.10	33.30	34.50	35.70	36.90	38.10	39.30	40.50
15	16.20	16.50	16.95	17.25	17.55	17.85	18.30	18.60	18.90	19.35	19.65	19.95	53	27.60	28.80	30.00	31.20	32.55	33.75	34.95	36.15	37.35	38.55	39.75	40.95
16	16.50	16.95	17.25	17.55	18.00	18.30	18.75	19.05	19.35	19.95	20.25	20.70	54	27.90	29.10	30.45	31.50	33.00	34.05	35.40	36.60	37.95	39.00	40.20	41.55
17	16.80	17.25	17.55	18.00	18.30	18.75	19.20	19.50	19.80	20.40	20.70	21.15	55	28.20	29.40	30.75	31.80	33.30	34.50	35.85	37.20	38.40	39.60	40.95	42.15
18	17.10	17.55	17.85	18.30	18.75	19.20	19.65	19.95	20.40	20.85	21.30	21.75	56	28.50	29.85	31.05	32.25	33.60	34.95	36.30	37.50	38.85	40.20	41.40	42.75
19	17.40	17.85	18.30	18.75	19.20	19.65	20.10	20.40	20.85	21.45	21.90	22.20	57	28.80	30.15	31.50	32.70	34.05	35.40	36.60	38.10	39.30	40.65	42.00	43.35
20	17.70	18.15	18.60	19.05	19.50	19.95	20.40	20.25	21.30	21.75	22.35	22.65	58	29.10	30.45	31.80	33.00	34.50	35.85	34.05	38.40	39.90	41.25	42.60	43.95
21	18.00	18.45	19.05	19.50	19.80	20.40	21.00	21.30	21.90	22.35	22.95	23.40	59	29.40	30.75	32.10	33.45	34.80	36.15	34.50	39.00	40.35	41.70	43.05	44.40
22	18.30	18.75	19.35	19.95	20.25	20.85	21.45	21.75	22.35	22.80	23.40	23.85	60	29.70	31.05	32.40	33.90	35.25	36.60	34.95	39.45	40.80	42.15	43.65	45.00
23	18.60	19.05	19.65	20.25	20.70	21.30	21.90	22.35	22.95	23.40	23.85	24.45	61	30.00	31.50	32.85	34.20	35.70	37.05	35.40	39.90	41.25	42.75	44.25	45.45
24	18.90	19.35	19.95	20.70	21.15	21.75	22.35	22.65	23.40	23.85	24.45	24.90	62	30.30	31.80	33.15	34.65	36.00	37.35	36.00	40.35	41.70	43.20	44.70	46.05
25	19.20	19.65	20.40	21.00	21.45	22.05	22.70	22.65	23.85	24.30	24.90	25.50	63	30.60	32.10	33.45	35.10	36.45	37.95	36.45	40.80	42.30	43.80	45.30	46.65
26	19.50	19.95	20.70	21.45	21.90	22.50	23.25	23.70	24.45	24.90	25.35	26.10	64	30.90	32.40	33.90	35.40	36.90	38.25	36.75	41.25	42.75	44.25	45.90	47.25
27	19.80	20.40	21.00	21.75	22.20	22.95	23.70	24.15	24.90	25.35	25.95	26.55	65	31.20	32.70	34.20	35.85	37.20	38.70	37.20	41.70	43.20	44.85	46.50	47.70
28	20.10	20.70	21.30	22.20	22.65	23.40	24.15	24.60	25.35	25.80	26.55	27.30	66	31.50	33.00	34.65	36.30	37.65	39.15	37.65	42.30	43.65	45.45	47.10	48.30
29	20.40	21.00	21.75	22.50	22.95	23.85	24.60	25.05	25.80	26.25	27.00	27.75	67	31.80	33.30	34.95	36.60	38.10	39.45	37.95	42.60	44.10	46.05	47.55	48.90
30	20.70	21.30	22.05	22.95	23.40	24.15	25.05	25.50	26.25	26.85	27.60	28.20	68	32.10	33.75	35.25	37.05	38.40	40.05	39.55	43.20	44.70	46.50	48.00	49.50
31	21.00	21.60	22.50	23.25	23.85	24.45	25.50	25.95	26.70	27.45	28.20	28.80	69	32.40	34.05	35.55	37.35	38.85	40.35	42.00	43.50	45.15	46.95	48.45	50.10
32	21.30	21.90	22.80	23.70	24.15	24.90	25.95	26.40	27.15	27.90	28.65	29.40	70	32.70	34.35	36.00	37.65	39.15	40.80	42.45	44.10	45.60	47.40	48.90	50.55
33	21.60	22.20	23.10	24.00	24.60	25.35	26.40	26.85	27.75	28.50	29.10	30.00	71	33.00	34.65	36.30	38.10	39.60	41.25	42.90	44.55	46.05	48.00	49.50	51.00
34	21.90	22.50	23.55	24.45	25.05	25.80	27.00	27.45	28.20	28.95	29.70	30.45	72	33.30	34.95	36.60	38.40	40.05	41.55	43.35	45.00	46.65	48.45	50.10	51.45
35	22.30	22.80	23.85	24.75	25.35	26.10	27.45	27.75	28.65	29.40	30.30	31.35	73	33.60	35.25	36.90	38.85	40.35	42.00	43.65	45.45	47.25	49.05	50.70	52.05
36	22.50	23.10	24.15	25.05	25.80	26.55	27.75	28.35	29.10	29.85	30.75	31.65	74	33.90	35.55	37.35	39.15	40.80	42.45	44.10	45.90	47.70	49.50	51.15	52.65
37	22.80	23.40	24.45	25.35	26.25	27.00	28.20	28.80	29.55	30.45	31.35	32.10	75	34.20	36.00	37.65	39.60	41.10	42.90	44.55	46.35	48.15	50.10	51.75	53.25
38	23.10	23.70	24.75	25.80	26.55	27.45	28.50	29.25	30.15	30.90	31.80	32.70	76	34.50	36.30	38.10	40.05	41.55	43.35	45.00	46.95	48.60	50.70	52.35	53.85
39	23.40	24.00	25.20	26.10	27.00	27.90	28.80	29.70	30.60	31.50	32.25	33.30	77	34.80	36.60	38.40	40.35	42.00	43.80	45.45	47.40	49.05	51.30	52.95	54.45
40	23.70	24.45	25.50	26.55	27.45	28.35	29.25	30.15	31.05	31.95	32.85	33.75	78	35.10	37.05	38.70	40.65	42.30	44.25	45.90	47.85	49.65	51.90	53.55	55.05
41	24.00	24.75	25.80	27.00	27.75	28.80	29.70	30.60	31.50	32.55	33.45	34.35	79	35.40	37.35	39.15	40.95	42.75	44.55	46.35	48.30	50.20	52.35	54.00	55.65
42	24.30	25.05	26.25	27.30	28.20	29.10	30.00	31.05	31.95	33.00	33.90	33.95	80	35.70	37.65	39.45	41.25	43.05	45.00	46.80	48.75	50.55	52.80	54.60	56.10
43	24.60	25.35	26.55	27.75	28.50	29.55	30.60	31.50	32.55	33.60	34.50	35.40	81	36.00	37.95	39.75	41.70	43.50	45.45	47.25	49.20	51.00	53.40	55.05	56.70
44	24.90	25.65	26.85	28.05	28.80	30.00	30.90	31.95	33.00	34.05	34.95	36.00	82	36.30	38.25	40.20	42.00	43.80	45.90	47.70	49.65	51.45	54.00	55.65	57.30
45	25.20	25.95	27.30	28.50	29.25	30.45	31.35	32.40	33.45	34.50	35.55	36.60	83	36.60	38.70	40.50	42.45	44.40	46.35	48.15	50.10	52.05	54.45	56.25	57.90
46	25.50	26.25	27.60	28.80	29.70	30.75	31.95	33.00	34.05	35.10	36.00	37.20	84	36.90	39.00	40.80	42.75	44.70	46.65	48.60	50.55	52.65	54.90	56.85	58.50
47	25.80	26.55	27.90	29.10	30.00	31.20	32.40	33.45	34.50	35.55	36.60	37.80	85	37.20	39.30	41.25	43.05	45.15	47.10	49.05	51.00	53.10	55.35	57.45	59.10
48	26.10	26.85	28.20	29.40	30.45	31.65	33.00	33.90	34.95	36.00	37.20	38.40	86	37.50	39.60	41.55	43.50	45.45	47.55	49.50	51.60	53.55	55.80	58.05	59.70
49	26.40	27.15	28.65	29.70	30.90	32.10	33.30	34.35	35.55	36.60	37.65	39.00	87	37.80	39.90	42.00	43.80	45.90	47.85	49.95	51.90	54.15	56.40	58.50	60.30
50	26.70	27.45	28.95	30.15	31.35	32.45	33.60	35.80	36.00	37.05	38.25	39.45	88	38.10	40.20	42.30	44.10	46.20	48.30	50.40	52.50	54.75	56.85	58.95	61.10

PANEL BOARDS

STEEL BOXES ONLY

The boxes listed on this page are for either surface or flush work, and are made from one-eighth inch steel, strongly reinforced with angle irons.



For steel cabinets with steel doors and trims, see page 225.
 For steel cabinets with wood doors and trims, see page 225.
 For drilling and bushings for entrance wires, see page 228.
 Dimensions given below are 6 in. larger inside than panel.

Length in Inches	WIDTH IN INCHES													Length in Inches	WIDTH IN INCHES												
	13	14	15	16	17	18	19	20	21	22	23	24	13		14	15	16	17	18	19	20	21	22	23	24		
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$		
13	9.36	9.54	9.72	9.90	10.08	10.26	10.44	10.62	10.80	10.98	11.16	11.34	51	16.20	16.92	17.55	18.27	19.08	19.80	19.52	21.15	21.87	22.59	23.31	23.94		
14	9.54	9.72	9.90	10.17	10.35	10.53	10.71	10.89	11.07	11.25	11.43	11.61	52	16.38	17.10	17.82	18.54	19.26	19.98	20.70	21.42	22.14	22.86	23.58	24.30		
15	9.72	9.90	10.17	10.35	10.53	10.71	10.98	11.16	11.43	11.61	11.79	11.97	53	16.56	17.28	18.00	18.72	19.53	20.20	20.97	21.69	22.41	23.13	23.85	24.57		
16	9.90	10.17	10.35	10.53	10.80	10.98	11.25	11.43	11.70	11.97	12.15	12.24	54	16.74	17.46	18.27	18.90	19.80	20.43	21.24	21.96	22.77	23.40	24.12	24.93		
17	10.08	10.35	10.53	10.80	10.98	11.25	11.52	11.70	11.88	12.24	12.42	12.51	55	16.92	17.64	18.45	19.08	19.98	20.70	21.51	22.32	23.04	23.76	24.57	25.29		
18	10.26	10.53	10.71	10.98	11.25	11.52	11.79	11.97	12.24	12.51	12.78	12.87	56	17.10	17.91	18.63	19.35	20.16	20.97	21.78	22.50	23.31	24.12	24.84	25.65		
19	10.44	10.71	10.98	11.25	11.52	11.79	12.06	12.24	12.60	12.87	13.14	13.23	57	17.28	18.09	18.90	19.62	20.43	21.24	21.96	22.86	23.58	24.39	25.20	26.01		
20	10.62	10.89	11.16	11.43	11.70	11.97	12.24	12.51	12.78	13.05	13.41	13.59	58	17.46	18.27	19.08	19.80	20.70	21.51	22.23	23.04	23.94	24.75	25.56	26.37		
21	10.80	11.07	11.43	11.70	11.88	12.24	12.60	12.78	13.14	13.41	13.77	14.04	59	17.64	18.45	19.26	20.07	20.88	21.69	22.50	23.40	24.21	25.02	25.83	26.64		
22	10.98	11.25	11.61	11.97	12.24	12.51	12.87	13.05	13.41	13.68	14.04	14.31	60	17.82	18.63	19.44	20.34	21.15	21.96	22.77	23.67	24.48	25.29	26.19	27.00		
23	11.16	11.43	11.79	12.15	12.42	12.78	13.14	13.41	13.77	14.04	14.31	14.67	61	18.00	18.90	19.71	20.52	21.42	22.23	23.04	23.94	24.75	25.65	26.55	27.27		
24	11.34	11.61	11.97	12.42	12.69	13.05	13.41	13.59	14.04	14.31	14.67	14.84	62	18.18	19.08	19.89	20.79	21.60	22.41	23.40	24.21	25.02	25.92	26.82	27.63		
25	11.52	11.79	12.24	12.60	12.87	13.23	13.68	13.95	14.31	14.58	14.94	15.30	63	18.36	19.26	20.07	21.06	21.87	22.77	23.67	24.48	25.38	26.28	27.18	27.99		
26	11.70	11.97	12.42	12.87	13.14	13.50	13.95	14.22	14.67	14.94	15.21	15.66	64	18.54	19.44	20.34	21.24	22.14	22.95	23.85	24.75	25.65	26.55	27.54	28.35		
27	11.88	12.24	12.60	13.05	13.32	13.77	14.22	14.49	14.94	15.21	15.57	15.93	65	18.72	19.62	20.52	21.51	22.32	23.22	24.12	25.02	26.02	26.91	27.90	28.62		
28	12.06	12.42	12.78	13.32	13.59	14.04	14.49	14.76	15.21	15.48	15.93	16.38	66	18.90	19.80	20.79	21.78	22.59	23.49	24.39	25.38	26.19	27.27	28.26	28.98		
29	12.24	12.60	13.05	13.50	13.77	14.31	14.76	15.03	15.39	15.75	16.20	16.65	67	19.08	19.98	20.97	21.96	22.86	23.67	24.75	25.56	26.46	27.63	28.53	29.34		
30	12.42	12.78	13.23	13.77	14.04	14.49	15.03	15.30	15.75	16.11	16.56	16.92	68	19.26	20.25	21.15	22.23	23.04	24.03	24.93	25.92	26.82	27.90	28.80	29.70		
31	12.60	12.96	13.50	13.95	14.31	14.67	15.30	15.57	16.02	16.47	16.92	17.28	69	19.44	20.43	21.33	22.41	23.31	24.21	25.20	26.10	27.09	28.17	29.07	30.06		
32	12.78	13.14	13.68	14.22	14.49	14.94	15.57	15.84	16.29	16.74	17.19	17.64	70	19.62	20.61	21.60	22.59	23.49	24.48	25.47	26.46	27.36	28.44	29.34	30.33		
33	12.96	13.32	13.86	14.40	14.76	15.21	15.84	16.11	16.65	17.10	17.46	18.00	71	19.80	20.79	21.78	22.86	23.76	24.75	25.74	26.73	27.63	28.80	29.70	30.60		
34	13.14	13.50	14.13	14.67	15.03	15.48	16.20	16.47	16.92	17.37	17.82	18.27	72	19.98	20.97	21.96	23.04	24.03	24.93	26.01	27.00	27.99	29.07	30.06	30.87		
35	13.32	13.68	14.31	14.85	15.21	15.75	16.47	16.65	17.19	17.54	18.18	18.81	73	20.16	21.15	22.14	23.31	24.21	25.20	26.19	27.27	28.35	29.43	30.42	31.23		
36	13.50	13.86	14.49	15.03	15.48	16.02	16.65	16.91	17.46	17.91	18.45	18.99	74	20.34	21.33	22.41	23.49	24.48	25.47	26.46	27.54	28.62	29.70	30.69	31.59		
37	13.68	14.04	14.67	15.21	15.75	16.20	16.92	17.28	17.73	18.27	18.81	19.26	75	20.52	21.60	22.59	23.76	24.66	25.74	26.73	27.81	28.89	30.06	31.05	31.95		
38	13.86	14.22	14.85	15.48	15.93	16.47	17.10	17.55	18.09	18.54	19.08	19.62	76	20.70	21.78	22.86	24.03	24.93	25.91	27.00	28.17	29.16	30.42	31.41	32.31		
39	14.04	14.40	15.12	15.66	16.20	16.74	17.28	17.82	18.36	18.90	19.35	19.98	77	20.88	21.96	23.04	24.21	25.20	26.28	27.27	28.44	29.43	30.78	31.77	32.67		
40	14.22	14.67	15.30	15.93	16.47	17.01	17.55	18.09	18.63	19.17	19.71	20.25	78	21.06	22.23	23.22	24.39	25.38	26.55	27.54	28.71	29.79	31.14	32.13	33.03		
41	14.40	14.85	15.48	16.20	16.65	17.28	17.82	18.36	18.90	19.53	20.07	20.61	79	21.24	22.41	23.49	24.57	25.65	26.73	27.81	28.98	30.06	31.41	32.40	33.39		
42	14.58	15.03	15.75	16.38	16.92	17.46	18.00	18.63	19.17	19.80	20.34	20.97	80	21.42	22.59	23.67	24.75	25.83	27.00	28.08	29.25	30.33	31.68	32.76	33.66		
43	14.76	15.21	15.93	16.65	17.10	17.73	18.36	18.90	19.53	20.16	20.70	21.24	81	21.60	22.77	23.85	25.02	26.10	27.27	28.35	29.52	30.60	31.98	33.03	34.02		
44	14.94	15.39	16.11	16.83	17.28	18.00	18.54	19.26	19.80	20.61	20.97	21.60	82	21.78	22.95	24.12	25.20	26.28	27.54	28.62	29.79	30.87	32.40	33.39	34.38		
45	15.12	15.57	16.38	17.10	17.55	18.27	18.81	19.44	20.07	20.70	21.33	21.96	83	21.96	23.22	24.30	25.47	26.64	27.81	28.89	30.06	31.23	32.67	33.75	34.74		
46	15.30	15.75	16.56	17.28	17.82	18.45	19.17	19.80	20.43	21.06	21.60	22.32	84	22.14	23.40	24.48	25.65	26.82	27.99	29.16	30.33	31.59	32.94	34.11	35.10		
47	15.48	15.93	16.74	17.46	18.00	18.72	19.44	20.07	20.70	21.33	21.96	22.68	85	22.32	23.58	24.75	25.83	27.09	28.26	29.43	30.60	31.86	33.21	34.47	35.46		
48	15.66	16.11	16.92	17.64	18.27	18.99	19.80	20.34	20.97	21.60	22.32	23.04	86	22.50	23.76	24.93	26.10	27.27	28.53	29.70	30.96	32.13	33.48	34.83	35.82		
49	15.84	16.29	17.19	17.82	18.54	19.26	19.98	20.61	21.33	21.96	22.59	23.40	87	22.68	23.94	25.20	26.28	27.54	28.71	29.97	31.14	32.49	33.84	35.10	36.48		
50	16.02	16.47	17.37	18.09	18.81	19.53	20.16	20.88	21.60	22.23	22.95	23.67	88	22.96	24.12	25.38	26.46	27.72	28.98	30.24	31.50	32.85	34.11	35.37	36.63		

PANEL BOARDS

SLATE DOOR LINING ONLY FOR CABINETS HAVING SOLID WOOD DOOR

Prices listed are for plain black slate.

For black enamel slate add 30 per cent.

For marbleized slate add 30 per cent.

For marble (as ordered) add 150 per cent.

Dimensions given below are for corresponding panel for which door lining is desired.

Thickness of lining = $\frac{1}{4}$ in.

Length in Inches	WIDTH IN INCHES												Length in Inches	WIDTH IN INCHES											
	7	8	9	10	11	12	13	14	15	16	17	18		7	8	9	10	11	12	13	14	15	16	17	18
7	\$ 1.08	\$ 1.11	\$ 1.17	\$ 1.20	\$ 1.23	\$ 1.29	\$ 1.32	\$ 1.35	\$ 1.41	\$ 1.44	\$ 1.47	\$ 1.53	47	\$ 3.45	\$ 3.69	\$ 3.99	\$ 4.38	\$ 4.45	\$ 5.53	\$ 6.09	\$ 6.51	\$ 6.72	\$ 6.84	\$ 7.08	\$ 7.65
8	1.11	1.17	1.23	1.29	1.35	1.38	1.41	1.44	1.50	1.56	1.62	1.65	48	3.48	3.72	4.02	4.44	4.51	5.64	6.18	6.60	6.84	6.96	7.20	7.80
9	1.17	1.23	1.29	1.35	1.41	1.44	1.47	1.50	1.56	1.59	1.65	1.71	49	3.54	3.75	4.08	4.50	4.57	5.73	6.27	6.72	6.96	7.08	7.35	7.95
10	1.20	1.29	1.35	1.38	1.44	1.50	1.56	1.62	1.68	1.74	1.80	1.86	50	3.60	3.78	4.14	4.56	4.68	5.82	6.36	6.84	7.08	7.20	7.50	8.10
11	1.23	1.35	1.41	1.44	1.47	1.53	1.59	1.65	1.71	1.77	1.83	1.89	51	3.63	3.84	4.17	4.62	4.74	5.91	6.48	6.93	7.20	7.35	7.65	8.25
12	1.29	1.38	1.44	1.50	1.53	1.74	1.83	1.92	2.01	2.10	2.19	2.28	52	3.66	3.90	4.20	4.68	4.80	6.00	6.60	7.02	7.32	7.50	7.80	8.40
13	1.32	1.41	1.47	1.56	1.59	1.83	1.95	2.04	2.16	2.28	2.40	2.49	53	3.72	3.96	4.29	4.74	4.86	6.09	6.69	7.11	7.44	7.65	7.95	8.55
14	1.35	1.44	1.50	1.62	1.65	1.92	2.04	2.19	2.31	2.43	2.45	2.57	54	3.78	4.02	4.32	4.80	4.92	6.18	6.78	7.20	7.56	7.80	8.10	8.70
15	1.41	1.50	1.56	1.68	1.71	2.01	2.16	2.31	2.34	2.46	2.58	2.70	55	3.81	4.08	4.38	4.86	4.98	6.27	6.87	7.29	7.68	7.92	8.25	8.85
16	1.44	1.56	1.59	1.74	1.77	2.10	2.28	2.43	2.46	2.52	2.64	2.76	56	3.84	4.14	4.44	4.92	5.04	6.36	6.96	7.38	7.80	8.04	8.40	9.00
17	1.47	1.62	1.65	1.80	1.83	2.19	2.40	2.45	2.58	2.64	2.70	2.85	57	3.87	4.17	4.50	4.98	5.13	6.45	7.08	7.47	7.92	8.16	8.52	9.12
18	1.53	1.65	1.71	1.86	1.89	2.28	2.49	2.67	2.70	2.76	2.85	3.00	58	3.90	4.20	4.56	5.04	5.22	6.54	7.20	7.56	8.04	8.28	8.64	9.24
19	1.56	1.68	1.77	1.92	1.95	2.37	2.58	2.79	2.82	2.88	2.97	3.15	59	3.96	4.26	4.67	5.10	5.28	6.63	7.29	7.65	8.16	8.40	8.76	9.36
20	1.59	1.71	1.83	1.98	2.01	2.46	2.70	2.91	2.94	3.00	3.12	3.30	60	4.02	4.32	4.78	5.16	5.34	6.72	7.38	7.74	8.28	8.52	8.88	9.48
21	1.65	1.74	1.89	2.04	2.07	2.55	2.79	3.00	3.06	3.12	3.24	3.45	61	4.05	4.35	4.81	5.22	5.40	6.81	7.47	7.83	8.40	8.64	9.00	9.60
22	1.68	1.80	1.92	2.10	2.16	2.64	2.88	3.12	3.18	3.24	3.36	3.60	62	4.08	4.38	4.83	5.28	5.46	6.90	7.56	7.92	8.52	8.76	9.12	9.72
23	1.71	1.83	1.98	2.16	2.22	2.73	3.00	3.21	3.30	3.36	3.48	3.75	63	4.11	4.41	4.86	5.34	5.55	6.99	7.68	8.01	8.62	8.88	9.24	9.84
24	1.74	1.86	2.01	2.22	2.28	2.82	3.09	3.30	3.42	3.48	3.60	3.90	64	4.14	4.44	4.92	5.40	5.64	7.08	7.80	8.10	8.72	9.00	9.36	9.96
25	1.80	1.89	2.07	2.28	2.34	2.91	3.18	3.42	3.54	3.60	3.75	4.05	65	4.20	4.46	4.98	5.46	5.70	7.17	7.89	8.19	8.86	9.12	9.48	10.08
26	1.83	1.95	2.10	2.34	2.40	3.00	3.30	3.51	3.66	3.75	3.90	4.20	66	4.26	4.48	5.04	5.52	5.76	7.26	7.98	8.28	9.00	9.24	9.60	10.20
27	1.89	2.01	2.16	2.40	2.46	3.09	3.39	3.60	3.78	3.90	4.05	4.35	67	4.29	4.58	5.10	5.58	5.82	7.35	8.07	8.30	9.12	9.36	9.72	10.35
28	1.92	2.07	2.22	2.46	2.52	3.18	3.48	3.69	3.90	4.02	4.20	4.50	68	4.32	4.68	5.16	5.64	5.88	7.44	8.16	8.52	9.24	9.48	9.90	10.50
29	1.95	2.10	2.28	2.52	2.61	3.27	3.60	3.78	4.02	4.14	4.32	4.62	69	4.35	4.74	5.22	5.70	5.94	7.53	8.25	8.64	9.36	9.60	10.05	10.65
30	2.01	2.16	2.34	2.58	2.67	3.36	3.69	3.87	4.14	4.26	4.44	4.74	70	4.38	4.80	5.28	5.76	6.00	7.62	8.34	8.76	9.48	9.72	10.20	10.80
31	2.04	2.19	2.40	2.64	2.73	3.45	3.78	3.96	4.26	4.38	4.56	4.86	71	4.41	4.83	5.34	5.80	6.09	7.68	8.40	8.85	9.57	9.90	10.35	10.95
32	2.07	2.22	2.46	2.70	2.82	3.54	3.90	4.05	4.38	4.50	4.68	4.98	72	4.44	4.86	5.40	5.84	6.18	7.74	8.46	8.94	9.66	10.08	10.50	11.10
33	2.13	2.28	2.52	2.76	2.88	3.63	3.99	4.14	4.50	4.62	4.80	5.10	73	5.34	5.55	6.15	6.72	6.90	8.51	9.30	10.04	10.48	10.60	10.95	11.85
34	2.16	2.34	2.58	2.82	2.74	3.72	4.08	4.26	4.62	4.74	4.95	5.25	74	5.37	5.61	6.18	6.78	6.96	8.62	9.42	10.15	10.50	10.70	11.10	12.00
35	2.19	2.40	2.64	2.88	3.00	3.81	4.17	4.38	4.74	4.86	5.10	5.40	75	5.40	5.67	6.21	6.84	7.02	8.73	9.54	10.26	10.62	10.80	11.25	12.15
36	2.22	2.43	2.70	2.92	3.09	3.87	4.23	4.47	4.83	5.04	5.25	5.55	76	5.43	5.73	6.24	6.90	7.08	8.82	9.66	10.35	10.74	10.95	11.40	12.30
37	3.00	3.30	3.48	3.78	3.84	4.68	5.10	5.48	5.52	5.64	5.82	6.18	77	5.46	5.79	6.27	6.96	7.14	8.91	9.78	10.44	10.86	11.10	11.55	12.45
38	3.12	3.36	3.54	3.84	3.90	4.74	5.16	5.58	5.64	5.76	5.94	6.30	78	5.49	5.85	6.30	7.02	7.20	9.00	9.90	10.53	11.98	11.25	11.70	12.60
39	3.15	3.39	3.60	3.90	3.96	4.85	5.28	5.70	5.72	5.88	6.09	6.35	79	5.55	5.91	6.36	7.08	7.26	9.09	10.00	10.62	11.10	11.40	11.85	12.75
40	3.18	3.42	3.66	3.96	4.02	4.92	5.40	5.82	5.88	6.00	6.24	6.60	80	5.61	5.97	6.42	7.14	7.32	9.18	10.10	10.71	11.22	11.55	12.00	12.90
41	3.24	3.45	3.72	4.02	4.08	5.03	5.49	5.91	6.00	6.12	6.36	6.85	81	5.67	6.03	6.48	7.20	7.38	9.27	10.17	10.80	11.34	11.70	12.15	13.05
42	3.30	3.48	3.78	4.08	4.14	5.10	5.58	6.00	6.12	6.24	6.48	6.90	82	5.73	6.09	6.54	7.26	7.44	9.36	10.25	10.89	11.46	11.82	12.30	13.20
43	3.33	3.54	3.81	4.14	4.25	5.19	5.67	6.12	6.24	6.36	6.60	7.05	83	5.76	6.15	6.60	7.32	7.50	9.45	10.35	10.98	11.58	11.94	12.45	13.35
44	3.36	3.60	3.84	4.20	4.32	5.28	5.76	6.24	6.36	6.48	6.72	7.20	84	5.80	6.21	6.66	7.38	7.56	9.54	10.44	11.07	11.70	12.06	12.60	13.50
45	3.39	3.63	3.90	4.26	4.38	5.37	5.78	6.35	6.48	6.60	6.84	7.35	85	5.86	6.27	6.72	7.44	7.62	9.60	10.55	11.15	11.82	12.18	12.75	13.65
46	3.42	3.66	3.96	4.32	4.44	5.46	6.00	6.42	6.60	6.72	6.96	7.50	86	5.89	6.35	6.80	7.50	7.68	9.70	10.65	11.25	11.95	12.30	12.90	13.80

PANEL BOARDS

PRICES FOR DRILLING AND BUSHING CABINETS FOR ENTRANCE WIRES

The prices given below should be added to the list prices of cabinets when drilling is desired.

Max. Size of Wire or Cable	DRILLING AND BUSHING FOR WIRES AND CABLES PER HOLE			Inside Diam. of Conduit	DRILLING FOR CONDUIT PER HOLE						
	Wood Cabinets		Steel Cabinets		Wood Cabinets		Steel Cabinet	Inside Diam. of Conduit	Wood Cabinets		Steel Cabinets
	Iron Lined	Slate Lined			Iron Lined	Slate Lined			Iron Lined	Slate Lined	
12	\$0.10	\$0.18	\$0.13	$\frac{1}{8}$	\$0.09	\$0.09	\$0.06	2	\$0.16	\$0.16	\$0.14
2	.10	.18	.14	$\frac{1}{4}$	.09	.09	.06	2½	.20	.20	.16
4/0	.12	.20	.16	1	.10	.10	.08	3	.22	.22	.18
250000 CM	.16	.27	.22	1¼	.11	.11	.09	4	.28	.28	.25
500000 CM	.21	.35	.25	1½	.13	.13	.11				

NATIONAL ELECTRICAL CODE STANDARD 250 VOLT ENCLOSED FUSES FOR USE WITH G.E. CABINET PANELS



Length over ferrules, 2 in.
Diameter of tube, 1/2 in.
Diameter of ferrule, 9/16 in.

Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Cat. No.	Amp. Cap.	Std. Pkg.	List Price
59950	1	100	\$0.25	59380	6	100	\$0.25	34953	12	100	\$0.25
59951	2	100	.25	59381	7	100	.25	34954	15	100	.25
34949	3	100	.25	34951	8	100	.25	34955	20	100	.25
59379	4	100	.25	59382	9	100	.25	34956	25	100	.25
34950	5	100	.25	34952	10	100	.25	34957	30	100	.25



Length over ferrules, 3 in.
Diameter of tube, 3/4 in.
Diameter of ferrule, 13/16 in.

Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Cat. No.	Amp. Cap.	Std. Pkg.	List Price
34958	35	100	\$0.35	34960	45	100	\$0.35	34962	55	100	\$0.35
34959	40	100	.35	34961	50	100	.35	34963	60	100	.35



Length over terminals, 5 7/8 in.
Length over ferrules, 3 7/8 in.
Diameter of tube, 1 in.
Width of terminals, 3/4 in.
Thickness of terminals, 1/8 in.

Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE	
			Fuse	Re-filling				Fuse	Re-filling				Fuse	Re-filling
34965	65	50	\$0.90	\$0.60	34967	75	50	\$0.90	\$0.60	34969	90	50	\$0.90	\$0.60
34966	70	50	.90	.60	34968	80	50	.90	.60	34970	100	50	.90	.60



Length over terminals, 7 3/16 in.
Length over ferrules, 4 5/16 in.
Diameter of tube, 1 1/2 in.
Width of terminals, 1 1/8 in.
Thickness of terminals, 3/16 in.

Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE	
			Fuse	Re-filling				Fuse	Re-filling				Fuse	Re-filling
34972	110	25	\$2.00	\$0.90	34976	150	25	\$2.00	\$0.90	34980	190	25	\$2.00	\$0.90
34973	120	25	2.00	.90	34977	160	25	2.00	.90	34981	200	25	2.00	.90
34974	130	25	2.00	.90	34978	170	25	2.00	.90					
34975	140	25	2.00	.90	34979	180	25	2.00	.90					



Length over terminals, 8 3/4 in.
Length over ferrules, 4 5/8 in.
Diameter of tube, 2 in.
Width of terminals, 1 5/8 in.
Thickness of terminals, 1/4 in.

Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE	
			Fuse	Re-filling				Fuse	Re-filling				Fuse	Re-filling
34983	225	25	\$3.60	\$1.50	34986	300	25	\$3.60	\$1.50	34989	375	25	\$3.60	\$1.50
34984	250	25	3.60	1.50	34987	325	25	3.60	1.50	34990	400	25	3.60	1.50
34985	275	25	3.60	1.50	34988	350	25	3.60	1.50					

PANEL BOARDS

NATIONAL ELECTRICAL CODE STANDARD 250 VOLT ENCLOSED FUSES

FOR USE WITH G.E. CABINET PANELS



Length over terminals, 10 1/2 in.
Length over ferrules, 5 5/8 in.
Diameter of tube, 2 1/2 in.
Width of terminals, 2 in.
Thickness of terminals, 1/4 in.

Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE	
			Fuse	Re-filling				Fuse	Re-filling				Fuse	Re-filling
36472	425	10	\$5.50	\$2.00	36475	500	10	\$5.50	\$2.00	36477	575	10	\$5.50	\$2.00
36473	450	10	5.50	2.00	36476	525	10	5.50	2.00	36478	600	10	5.50	2.00
36474	475	10	5.50	2.00	37754	550	10	5.50	2.00					

STANDARD G.E. FUSE PLUGS

FOR USE ON 125 VOLT CABINET PANELS



Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
66327	3	\$0.07	66331	10	\$0.07	66335	15	\$0.07	66339	25	\$0.07
66329	6	.07	66333	12	.07	66337	20	.07	66341	30	.07

Standard package 500 each.

G.E. RENEWABLE FUSE PLUGS



Cat. No.	Amp.	Volts	Std. Pkg.	List Price
36093	30	250	100	\$0.18

Cat. No. 36093
Fuse Plug Casing

Cat. No. of casing does not include reload.
For reloads see 1 to 30 amp. N.E.C.S. Fuses listed on page 228.

STANDARD FUSES FOR LINK FUSE CABINET PANELS

FUSES FOR BRANCH CIRCUITS

125 VOLTS

250 VOLTS

Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
66373	10	\$0.03	66381	25	\$0.03	23135	10	\$0.03	23138	25	\$0.03
66377	15	.03	66383	30	.03	23136	15	.03	23139	30	.03
66379	20	.03				23137	20	.03			

Standard Package 100 one capacity.

FUSES FOR MAIN CIRCUITS

125 AND 250 VOLTS

Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
23135	10	\$0.03	48282	45	\$0.03	23155	90	\$0.10	48293	250	\$0.20
23136	15	.03	48283	50	.03	23156	100	.10	48294	275	.20
23137	20	.03	48284	55	.03	48287	125	.15	48295	300	.20
23138	25	.03	48285	60	.03	48288	150	.15	48297	325	.30
23139	30	.03	23152	70	.10	48289	175	.15	48298	350	.30
48280	35	.03	23153	75	.10	48290	200	.15	48299	375	.30
48281	40	.03	23154	80	.10	48292	225	.20	48300	400	.30

PANEL BOARDS

KNOCK DOWN PANEL CIRCUITS FOR PLUG FUSED CIRCUITS



Cat. No. 64176

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64178	125	2 to 2 wire	Double	\$0.75	125	2 to 2 wire	Double	\$1.00
64177	250	2 to 2 wire	Double	.80	250	2 to 2 wire	Double	1.05
64176	250/125	3 to 2 wire	Double	.80	250/125	3 to 2 wire	Double	1.05
64175	250/125	3 to 3 wire	Double	1.20	250/125	3 to 3 wire	Double	1.60
64174	125	2 to 2 wire	Single	.80	125	2 to 2 wire	Single	1.05
64173	250	2 to 2 wire	Single	.85	250	2 to 2 wire	Single	1.10
64172	250/125	3 to 2 wire	Single	.85	250/125	3 to 2 wire	Single	1.10
64171	250/125	3 to 3 wire	Single	1.30	250/125	3 to 3 wire	Single	1.70

SWITCHES OUTSIDE OF FUSES



Cat. No. 64184

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64186	125	2 to 2 wire	Double	\$1.45	125	2 to 2 wire	Double	\$1.85
64185	250	2 to 2 wire	Double	1.55	250	2 to 2 wire	Double	2.00
64184	250/125	3 to 2 wire	Double	1.50	250/125	3 to 2 wire	Double	1.90
64183	250/125	3 to 3 wire	Double	2.25	250/125	3 to 3 wire	Double	2.75
64182	125	2 to 2 wire	Single	1.50	125	2 to 2 wire	Single	1.90
64181	250	2 to 2 wire	Single	1.60	250	2 to 2 wire	Single	2.05
64180	250/125	3 to 2 wire	Single	1.55	250/125	3 to 2 wire	Single	1.95
64179	250/125	3 to 3 wire	Single	2.35	250/125	3 to 3 wire	Single	2.85

SWITCHES INSIDE OF FUSES



Cat. No. 64192

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64194	125	2 to 2 wire	Double	\$1.45	125	2 to 2 wire	Double	\$1.85
64193	250	2 to 2 wire	Double	1.55	250	2 to 2 wire	Double	2.00
64192	250/125	3 to 2 wire	Double	1.50	250/125	3 to 2 wire	Double	1.90
64191	250/125	3 to 3 wire	Double	2.25	250/125	3 to 3 wire	Double	2.75
64190	125	2 to 2 wire	Single	1.50	125	2 to 2 wire	Single	1.90
64189	250	2 to 2 wire	Single	1.60	250	2 to 2 wire	Single	2.05
64188	250/125	3 to 2 wire	Single	1.55	250/125	3 to 2 wire	Single	1.95
64187	250/125	3 to 3 wire	Single	2.35	250/125	3 to 3 wire	Single	2.85

NOTE: Cat. No. and List Price cover pair of circuits whether single or double branch.

PANEL BOARDS KNOCK DOWN PANEL CIRCUITS FOR ENCLOSED FUSED CIRCUITS



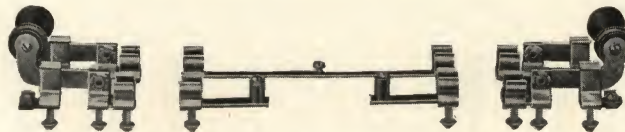
Cat. No. 64200

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64202	125	2 to 2 wire	Double	\$0.60	125	2 to 2 wire	Double	\$0.80
64201	250	2 to 2 wire	Double	.65	250	2 to 2 wire	Double	.85
64200	250/125	3 to 2 wire	Double	.65	250/125	3 to 2 wire	Double	.85
64199	250/125	3 to 3 wire	Double	1.00	250/125	3 to 3 wire	Double	1.30
64198	125	2 to 2 wire	Single	.65	125	2 to 2 wire	Single	.85
64197	250	2 to 2 wire	Single	.70	250	2 to 2 wire	Single	.90
64196	250/125	3 to 2 wire	Single	.70	250/125	3 to 2 wire	Single	.90
64195	250/125	3 to 3 wire	Single	1.10	250/125	3 to 3 wire	Single	1.40

SWITCHES OUTSIDE OF FUSES



Cat. No. 64208

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64210	125	2 to 2 wire	Double	\$1.20	125	2 to 2 wire	Double	\$1.65
64209	250	2 to 2 wire	Double	1.30	250	2 to 2 wire	Double	1.75
64208	250/125	3 to 2 wire	Double	1.25	250/125	3 to 2 wire	Double	1.70
64207	250/125	3 to 3 wire	Double	1.90	250/125	3 to 3 wire	Double	2.55
64206	125	2 to 2 wire	Single	1.25	125	2 to 2 wire	Single	1.70
64205	250	2 to 2 wire	Single	1.35	250	2 to 2 wire	Single	1.80
64204	250/125	3 to 2 wire	Single	1.30	250/125	3 to 2 wire	Single	1.75
64203	250/125	3 to 3 wire	Single	2.00	250/125	3 to 3 wire	Single	2.65

SWITCHES INSIDE OF FUSES



Cat. No. 64216

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64218	125	2 to 2 wire	Double	\$1.20	125	2 to 2 wire	Double	\$1.65
64217	250	2 to 2 wire	Double	1.30	250	2 to 2 wire	Double	1.75
64216	250/125	3 to 2 wire	Double	1.25	250/125	3 to 2 wire	Double	1.70
64215	250/125	3 to 3 wire	Double	1.90	250/125	3 to 3 wire	Double	2.55
64214	125	2 to 2 wire	Single	1.25	125	2 to 2 wire	Single	1.70
64213	250	2 to 2 wire	Single	1.35	250	2 to 2 wire	Single	1.80
64212	250/125	3 to 2 wire	Single	1.30	250/125	3 to 2 wire	Single	1.75
64211	250/125	3 to 3 wire	Single	2.00	250/125	3 to 3 wire	Single	2.65

NOTE: Cat. No. and List Price cover pair of circuits whether single or double branch.

PANEL BOARDS
KNOCK DOWN PANEL CIRCUITS
FOR LINK FUSED CIRCUITS



Cat. No. 64224

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64226	125	2 to 2 wire	Double	\$0.60	125	2 to 2 wire	Double	\$0.80
64225	250	2 to 2 wire	Double	.65	250	2 to 2 wire	Double	.85
64224	250/125	3 to 2 wire	Double	.65	250/125	3 to 2 wire	Double	.85
64223	250/125	3 to 3 wire	Double	1.00	250/125	3 to 3 wire	Double	1.30
64222	125	2 to 2 wire	Single	.65	125	2 to 2 wire	Single	.85
64221	250	2 to 2 wire	Single	.70	250	2 to 2 wire	Single	.90
64220	250/125	3 to 2 wire	Single	.70	250/125	3 to 2 wire	Single	.90
64219	250/125	3 to 3 wire	Single	1.10	250/125	3 to 3 wire	Single	1.40

SWITCHES OUTSIDE OF FUSES



Cat. No. 64232

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64234	125	2 to 2 wire	Double	\$1.20	125	2 to 2 wire	Double	\$1.65
64233	250	2 to 2 wire	Double	1.30	250	2 to 2 wire	Double	1.75
64232	250/125	3 to 2 wire	Double	1.25	250/125	3 to 2 wire	Double	1.70
64231	250/125	3 to 3 wire	Double	1.90	250/125	3 to 3 wire	Double	2.55
64230	125	2 to 2 wire	Single	1.25	125	2 to 2 wire	Single	1.70
64229	250	2 to 2 wire	Single	1.35	250	2 to 2 wire	Single	1.80
64228	250/125	3 to 2 wire	Single	1.30	250/125	3 to 2 wire	Single	1.75
64227	250/125	3 to 3 wire	Single	2.00	250/125	3 to 3 wire	Single	2.65

SWITCHES INSIDE OF FUSES



Cat. No. 64240

PLAIN FINISH

POLISHED FINISH

Cat. No.	Volts	Description	Branch	List Price	Volts	Description	Branch	List Price
64242	125	2 to 2 wire	Double	\$1.20	125	2 to 2 wire	Double	\$1.65
64241	250	2 to 2 wire	Double	1.30	250	2 to 2 wire	Double	1.75
64240	250/125	3 to 2 wire	Double	1.25	250/125	3 to 2 wire	Double	1.70
64239	250/125	3 to 3 wire	Double	1.90	250/125	3 to 3 wire	Double	2.55
64238	125	2 to 2 wire	Single	1.25	125	2 to 2 wire	Single	1.70
64237	250	2 to 2 wire	Single	1.35	250	2 to 2 wire	Single	1.80
64236	250/125	3 to 2 wire	Single	1.30	250/125	3 to 2 wire	Single	1.75
64235	250/125	3 to 3 wire	Single	2.00	250/125	3 to 3 wire	Single	2.65

NOTE: Cat. No. and List Price cover pair of circuits whether single or double branch.

CUT-OUTS AND FUSES

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS
AND FUSES

This catalogue embodies the different cut-outs and enclosed fuses adopted by the Underwriters and which are known as the National Electrical Code standard. Through the adoption of a uniform design, size and rating, by representatives of enclosed fuse manufacturers and the Underwriters' Association, all fuses and cut-outs which conform to the requirements of the rules will hereafter be standard and interchangeable.

G. E. Enclosed Fuses have been perfected by years of exhaustive research and experiments by skilled engineers. The minute details of construction and the proper assembling of the various parts, which alone can be depended upon to cause the quiet rupturing of the arc, are most carefully considered in the manufacture of these fuses.

All fuses have copper leading in wires or strips, in order to reduce the length of the fuse metal. This decreases the bulk of the metal that is changed to a metallic vapor when the fuse is blown.

The compound used as a filler material is granular in form, allowing free distribution of metallic vapors and putting no excessive strain on any part of the enclosing tube. It is chemically inert and non-absorptive, has no action on the fuse metal and will not pack around it, thus assuring constant rating.

The fuse element is carefully gauged to secure the proper cross section of metal at the center so as to permit accuracy of rating. Repeated tests have shown the limit of capacity at which it is necessary, because of the amount of metal involved, to subdivide the fuse into multiple links. The multiple link is used in 200 ampere and larger capacity fuses at 250 volts pressure. The Rolled Ribbon fuse link is used in 100 ampere and larger capacity fuses at 600 volts pressure. In this type of fuse element is a long strip of very thin metal, divided into a number of sections, and separated by asbestos sheets rolled in multiple with it. This construction has proven most effective in rupturing the circuit quietly on a dead short circuit of a storage battery with a short circuit capacity of 66,000 amperes at 600 volts.

Refilling prices are given in the price lists for those fuses which can be refilled at less than the price of new fuses—in ferrule type fuses the material saved is worth less than the labor cost of preparing them for refilling. The General Electric Company finds it necessary to insist on the return of its fuses to the factory if customers wish them refilled. It cannot supply refilling materials. The property of its customers, as well as the reputation of the fuses, would be endangered by an attempt to refill fuses in other than a properly equipped factory.

250 VOLT 30 AMPERE CUT-OUTS

Order by the package, if possible.

* Cat. No.	Description	Standard Package	List Price
36802	Single-pole, main line	50	\$0.40
34367	Two-wire, main line	50	.55
34368	Two-wire, single branch	50	.70
34369	Two-wire, double branch	25	1.30
34371	Two-wire, crossover	50	.65
34370	Three to two-wire, double branch	25	1.50
34372	Three-wire, main line	50	.80
34373	Three-wire, single branch	50	1.35
34374	Three-wire, double branch	25	2.25



Cat. No. 34368



Cat. No. 34372

*Cat. No. of cut-out does not include fuses.

FUSES FOR USE WITH 250 VOLT 30 AMPERE CUT-OUTS



Length over ferrules, 2 inches. Diameter of tube, $\frac{1}{2}$ inch. Diameter of ferrule, $\frac{9}{16}$ inch.
Order by the package, if possible.

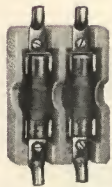
Cat. No.	Amp. Cap.	Standard Package	List Price	Cat. No.	Amp. Cap.	Standard Package	List Price
59950	1	100	\$0.25	59382	9	100	\$0.25
59951	2	100	.25	34952	10	100	.25
34949	3	100	.25	34953	12	100	.25
59379	4	100	.25	34954	15	100	.25
34950	5	100	.25	34955	20	100	.25
59380	6	100	.25	34956	25	100	.25
59381	7	100	.25	34957	30	100	.25
34951	8	100	.25				

CUT-OUTS AND FUSES

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS
AND FUSES (Continued)

250 VOLT 60 AMPERE CUT-OUTS

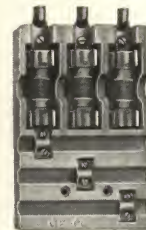
Order by the package, if possible.



Cat. No. 34376

* Cat. No.	Description	Standard Package	List Price
36803	Single-pole, main line	50	\$0.65
34376	Two-wire, main line	50	1.40
34377	Three-wire, main line	50	2.00
34378	Two-wire, single branch	50	1.75
34379	Three-wire, single branch	50	3.00
36806	Two-wire, double branch	25	3.50
36805	Three to two-wire, double branch	25	4.20
36804	Three-wire, double branch	10	6.00

*Cat. No. of cut-out does not include fuses.



Cat. No. 34379

FUSES FOR USE WITH 250 VOLT 60 AMPERE CUT-OUTS

Length over ferrules, 3 inches. Diameter over tube, $\frac{3}{4}$ inch. Diameter of ferrule, $\frac{11}{16}$ inch.
Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	List Price	Cat. No.	Amp. Cap.	Standard Package	List Price
34958	35	100	\$0.35	34961	50	100	\$0.35
34959	40	100	.35	34962	55	100	.35
34960	45	100	.35	34963	60	100	.35

250 VOLT ENCLOSED FUSE CUT-OUTS, 100 AMPERES AND UPWARDS

Order by the package, if possible.

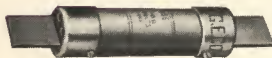


Cat. No. 34971

* Cat. No.	Description	Volts	Standard Package	List Price
34964	Single-pole, cut-out, 61-100 amperes	250	50	\$1.40
36801	Double pole, cut-out, 61-100 amperes	250	50	2.80
36800	Triple pole, cut-out, 61-100 amperes	250	25	4.00
34971	Single-pole, cut-out, 101-200 amperes	250	50	2.75
34982	Single-pole, cut-out, 201-400 amperes	250	25	7.00
36471	Single-pole, cut-out, 401-600 amperes	250	10	11.00

*Cat. No. of cut-out does not include fuses.

FUSES FOR 250 VOLT 100 AMPERE CUT-OUTS, CAT. NOS. 34964, 36801, 36800

Length over terminals, $5\frac{7}{8}$ inches. Length over ferrules, $3\frac{7}{8}$ inches. Diameter of tube, 1 inch. Width of terminals, $\frac{3}{4}$ inch. Thickness of terminals, $\frac{1}{8}$ inch.
Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
34965	65	50	\$0.90	\$0.60	34968	80	50	\$0.90	\$0.60
34966	70	50	.90	.60	34969	90	50	.90	.60
34967	75	50	.90	.60	34970	100	50	.90	.60

Minimum refilling quantity of fuses, standard package, one capacity.

CUT-OUTS AND FUSES

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS
AND FUSES (Continued)

FUSES FOR 250 VOLT 200 AMPERE CUT-OUT, CAT. NO. 34971

Length over terminals, $7\frac{3}{16}$ inches. Length over ferrules $4\frac{5}{16}$ inches. Diameter of tube, $1\frac{1}{2}$ inches. Width of terminals, $1\frac{1}{8}$ inches. Thickness of terminals, $\frac{3}{16}$ inch.
Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
34972	110	25	\$2.00	\$0.90	34977	160	25	\$2.00	\$0.90
34973	120	25	2.00	.90	34978	170	25	2.00	.90
34974	130	25	2.00	.90	34979	180	25	2.00	.90
34975	140	25	2.00	.90	34980	190	25	2.00	.90
34976	150	25	2.00	.90	34981	200	25	2.00	.90

Minimum refilling quantity of fuses, standard package, one capacity.

FUSES FOR 250 VOLT 400 AMPERE CUT-OUT, CAT. NO. 34982

Length over terminals, $8\frac{3}{4}$ inches. Length over ferrules, $4\frac{5}{8}$ inches. Diameter of tube, 2 inches. Width of terminals, $1\frac{1}{8}$ inches. Thickness of terminals, $\frac{1}{4}$ inch.
Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
34983	225	25	\$3.60	\$1.50	34987	325	25	\$3.60	\$1.50
34984	250	25	3.60	1.50	34988	350	25	3.60	1.50
34985	275	25	3.60	1.50	34989	375	25	3.60	1.50
34986	300	25	3.60	1.50	34990	400	25	3.60	1.50

Minimum refilling quantity of fuses, standard package, one capacity.

FUSES FOR 250 VOLT 600 AMPERE CUT-OUT, CAT. NO. 36471

Length over terminals, $10\frac{1}{2}$ inches. Length over ferrules, $5\frac{5}{8}$ inches. Diameter of tube, $2\frac{1}{2}$ inches. Width of terminals, 2 inches. Thickness of terminals, $\frac{1}{4}$ inch.
Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
36472	425	10	\$5.50	\$2.00	36476	525	10	\$5.50	\$2.00
36473	450	10	5.50	2.00	37754	550	10	5.50	2.00
36474	475	10	5.50	2.00	36477	575	10	5.50	2.00
36475	500	10	5.50	2.00	36478	600	10	5.50	2.00

Minimum refilling quantity of fuses, standard package, one capacity.

600 VOLT SINGLE POLE ENCLOSED FUSE CUT-OUTS, 30 AMPERES AND UPWARDS

Order by the package, if possible.



* Cat. No.	Description	Volts	Standard Package	List Price
34991	Single-pole, cut-out, 3- 30 amperes .	600	50	\$0.60
35101	Single-pole, cut-out, 31- 60 amperes .	600	50	.90
21474	Single-pole, cut-out, 61-100 amperes .	600	50	1.75
35114	Single-pole, cut-out, 101-200 amperes .	600	50	3.00
35125	Single-pole, cut-out, 201-400 amperes .	600	25	8.00
36479	Single-pole, cut-out, 401-600 amperes .	600	10	12.00

* Cat. No. of cut-out does not include fuse.



CUT-OUTS AND FUSES

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS
AND FUSES (Continued)

FUSES FOR 600 VOLT 30 AMPERE CUT-OUT, CAT. NO. 34991



Length over ferrules, 5 inches. Diameter of tube, $\frac{3}{8}$ inch. Diameter of ferrule, $1\frac{3}{8}$ inch. Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	List Price	Cat. No.	Amp. Cap.	Standard Package	List Price
42638	1	100	\$0.40	59386	9	100	\$0.40
42639	2	100	.40	34995	10	100	.40
34992	3	100	.40	34996	12	100	.40
59383	4	100	.40	34997	15	100	.40
34993	5	100	.40	34998	20	100	.40
59384	6	100	.40	34999	25	100	.40
59385	7	100	.40	35100	30	100	.40
34994	8	100	.40				

FUSES FOR 600 VOLT 60 AMPERE CUT-OUT, CAT. NO. 35101

Length over ferrules, $5\frac{1}{2}$ inches. Diameter of tube, 1 inch. Diameter of ferrule, $1\frac{1}{8}$ inch. Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	List Price	Cat. No.	Amp. Cap.	Standard Package	List Price
35102	35	100	\$0.60	35105	50	100	\$0.60
35103	40	100	.60	35106	55	100	.60
35104	45	100	.60	35107	60	100	.60

FUSES FOR 600 VOLT 100 AMPERE CUT-OUT, CAT. NO. 21474



Length over terminals, $7\frac{1}{2}$ inches. Length over ferrules, $5\frac{1}{2}$ inches. Diameter of tube, $1\frac{1}{4}$ inches. Width of terminals, $\frac{3}{4}$ inch. Thickness of terminals, $\frac{1}{8}$ inch. Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
35108	65	50	\$1.50	\$0.80	35111	80	50	\$1.50	\$0.80
35109	70	50	1.50	.80	35112	90	50	1.50	.80
35110	75	50	1.50	.80	35113	100	50	1.50	.80

Minimum refilling quantity of fuses, standard package, one capacity.

FUSES FOR 600 VOLT 200 AMPERE CUT-OUT, CAT. NO. 35114

Length over terminals, $9\frac{1}{8}$ inches. Length over ferrules, $6\frac{1}{8}$ inches. Diameter of tube, $1\frac{1}{2}$ inches. Width of terminals, $1\frac{1}{8}$ inches. Thickness of terminals, $\frac{3}{16}$ inch. Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
35115	110	25	\$2.50	\$1.20	35120	160	25	\$2.50	\$1.20
35116	120	25	2.50	1.20	35121	170	25	2.50	1.20
35117	130	25	2.50	1.20	35122	180	25	2.50	1.20
35118	140	25	2.50	1.20	35123	190	25	2.50	1.20
35119	150	25	2.50	1.20	35124	200	25	2.50	1.20

FUSES FOR 600 VOLT 400 AMPERE CUT-OUT, CAT. NO. 35125

Length over terminals, $11\frac{3}{4}$ inches. Length over ferrules, $7\frac{7}{8}$ inches. Diameter of tube, $2\frac{1}{2}$ inches. Width of terminals, $1\frac{1}{2}$ inches. Thickness of terminals, $\frac{1}{4}$ inch. Order by the package, if possible.

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
35126	225	25	\$5.50	\$2.00	35130	325	25	\$5.50	\$2.00
35127	250	25	5.50	2.00	35131	350	25	5.50	2.00
35128	275	25	5.50	2.00	35132	375	25	5.50	2.00
35129	300	25	5.50	2.00	35133	400	25	5.50	2.00

Minimum refilling quantity of fuses, standard package, one capacity.

CUT-OUTS AND FUSES

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS
AND FUSES (Continued)

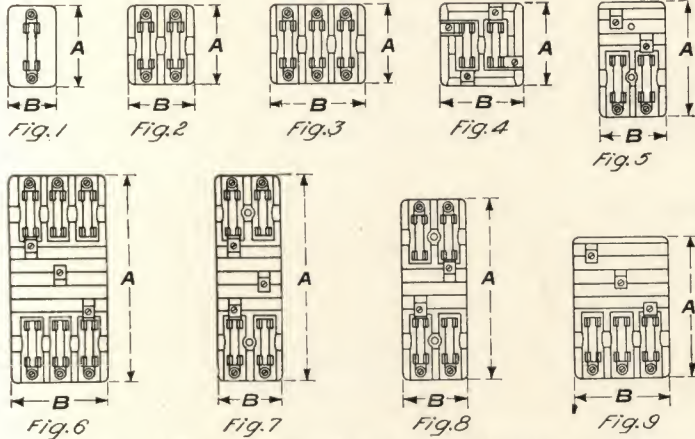
FUSES FOR 600 VOLT 600 AMPERE CUT-OUT, CAT. NO. 36479

Length over terminals, $13\frac{1}{2}$ inches. Length over ferrules, $8\frac{5}{8}$ inches. Diameter of tube, 3 inches. Width of terminals, 2 inches. Thickness of terminals, $\frac{1}{4}$ inch.
Order by the package, if possible.

Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE		Cat. No.	Amp. Cap.	Std. Pkg.	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
36480	425	10	\$8.00	\$3.00	36484	525	10	\$8.00	\$3.00
36481	450	10	8.00	3.00	37755	550	10	8.00	3.00
36482	475	10	8.00	3.00	36485	575	10	8.00	3.00
36483	500	10	8.00	3.00	36486	600	10	8.00	3.00

Minimum refilling quantity of fuses, standard package, one capacity.

NATIONAL ELECTRICAL CODE STANDARD—DIMENSIONS OF 30 AND 60 AMPERE CUT-OUTS



NOTE.—N.E.C.S. fuses will not fit in old code cut-outs shown above and vice versa.

Fig. No.	Cat. No.	Amp.	Volt	DIMENSIONS IN INCHES		
				A	B	C (Height)
1	36802	30	250	3 3/4	2	1 5/8
1	36803	60	250	5	2	2
1	34991	30	600	7	1 3/4	1 13/16
1	35101	60	600	7 5/8	1 3/4	1 1/8
2	34367	30	250	3 5/16	2 13/16	1 7/16
2	34376	60	250	5	3 5/8	1 15/16
3	34372	30	250	3 5/16	4 1/16	1 7/16
3	34377	60	250	5	5 5/16	1 15/16
4	34371	30	250	3 1/2	3 1/2	1 3/8
4	34368	30	250	4 15/16	2 13/16	1 7/16
5	34378	60	250	6 13/16	3 5/8	1 15/16
6	34374	30	250	8 7/8	4 1/16	1 9/16
6	36804	60	250	11 7/8	5 5/16	2 1/8
7	34370	30	250	8 7/8	13/16	1 9/16
7	36805	60	250	11 7/8	3 5/8	2 1/8
8	34369	30	250	7 3/4	2 13/16	1 7/16
8	36806	60	250	10 5/8	3 5/8	2 1/8
9	34373	30	250	6 1/16	4 1/16	1 7/16
9	34379	60	250	8 1/16	5 5/16	1 15/16
OLD CODE						
1	51852	30	250	4 1/2	2	1 1/2
1	23880	60	250	6	1 3/4	1 13/16
1	23886	10	500	6 1/2	1 3/4	1 5/8
1	11466	30	500	7 7/8	1 3/4	1 15/16
2	9551	30	250	4 9/16	3 15/16	1 5/8
3	9552	30	250	4 9/16	5 11/16	1 5/8
5	9553	30	250	7	3 15/16	1 5/8
8	51760	30	250	9 1/4	3 3/4	1 5/8
9	9554	30	250	8 1/2	5 11/16	1 5/8

NATIONAL ELECTRICAL CODE STANDARD—DIMENSIONS OF 100 TO 600 AMPERE CUT-OUTS

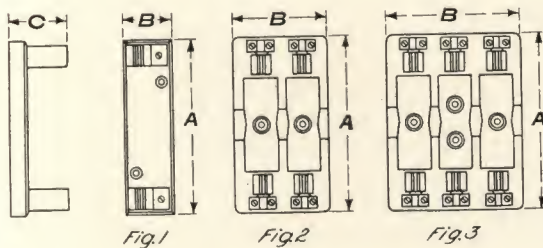
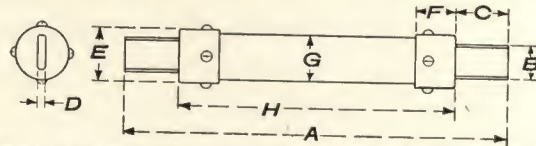
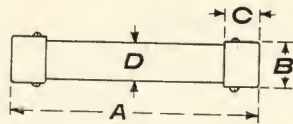


Fig. No.	Cat. No.	Amp.	Volt	DIMENSIONS IN INCHES		
				A	B	C (Height)
1	34964	100	250	6 1/8	2 1/8	2 11/16
2	36801	100	250	7 3/8	3 7/8	2 9/16
3	36800	100	250	7 3/8	5 5/8	2 9/16
1	34971	200	250	7 3/8	2 3/4	3 13/32
1	34982	400	250	9 1/4	3	3 15/16
1	36471	600	250	11 1/4	3 1/2	5
1	21474	100	600	8 1/2	2 3/8	2 13/16
1	35114	200	600	9 7/8	2 3/4	3 13/32
1	35125	400	600	12 1/4	3	3 15/16
1	36479	600	600	14 1/4	3 1/2	5
OLD CODE						
1	21466	100	250	8	2 1/2	2 15/32
1	25099	200	250	8	2 3/4	3 13/32
1	26397	400	250	9 7/8	3 3/4	4 1/4
1	21474	100	500	8 1/2	2 3/8	2 13/16
1	25738	200	500	9 1/4	2 3/4	3 5/32
1	27300	400	500	11 1/4	3 3/4	4 1/4

CUT-OUTS AND FUSES

DIMENSIONS OF FUSES—NATIONAL ELECTRICAL CODE STANDARD (Concluded)



Amp.	Volt	DIMENSIONS IN INCHES				Amp.	Volt	DIMENSIONS IN INCHES							
		A	B	C	D			A	B	C	D	E	F	G	H
0-30	250	2	$\frac{9}{16}$	$\frac{1}{8}$	$\frac{1}{8}$	61-100	250	$5\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	1	$3\frac{7}{8}$
31-60	250	3	$\frac{11}{16}$	$\frac{1}{8}$	$\frac{1}{8}$	101-200	250	$7\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$
3-30	600	5	$\frac{11}{16}$	$\frac{1}{8}$	$\frac{1}{8}$	201-400	250	$8\frac{1}{8}$	$1\frac{1}{8}$	$2\frac{1}{8}$	$\frac{1}{8}$	$2\frac{1}{8}$	$\frac{1}{8}$	2	$4\frac{1}{8}$
31-60	600	$5\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{8}$	1	401-600	250	$10\frac{1}{8}$	2	$2\frac{1}{8}$	$\frac{1}{8}$	$2\frac{1}{8}$	$\frac{1}{8}$	$2\frac{1}{2}$	$5\frac{1}{8}$
OLD CODE						61-100	600	$7\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$
3-15	250	$1\frac{1}{2}$	$\frac{9}{16}$	$\frac{1}{8}$	$\frac{1}{8}$	101-200	600	$9\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$
3-30	250	$2\frac{1}{2}$	$\frac{11}{16}$	$\frac{1}{8}$	$\frac{1}{8}$	201-400	600	$11\frac{1}{8}$	$1\frac{1}{8}$	$2\frac{1}{8}$	$\frac{1}{8}$	$2\frac{1}{8}$	$\frac{1}{8}$	2	$5\frac{1}{8}$
30-60	250	$4\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	401-600	600	$13\frac{1}{8}$	2	$2\frac{1}{8}$	$\frac{1}{8}$	$2\frac{1}{8}$	$\frac{1}{8}$	3	$6\frac{1}{8}$
1-10	500	$4\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	OLD CODE									
10-30	500	$5\frac{1}{2}$	$1\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	60-100	250	$6\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$3\frac{7}{8}$
Instrument Protective		$2\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	100-200	250	$7\frac{1}{8}$	1	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$
Potential Transformer Protective		$4\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	200-400	250	$8\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$
						30-100	500	8	1	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$
						100-200	500	$8\frac{1}{8}$	1	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$
						200-400	500	$10\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	$1\frac{1}{2}$	$4\frac{1}{8}$

FUSE CLIPS AND TERMINALS

For G.E. National Electrical Code Standard Enclosed Fuse Cut-outs

FRONT CONNECTED
FUSE CLIPS AND TERMINALS, COMPLETE

Cat. No. 36487

Cat. No.	RATING OF CUT-OUT		Std. Pkg.	List Price	Cat. No.	RATING OF CUT-OUT		Std. Pkg.	List Price
	Amp.	Volts				Amp.	Volts		
36487	30	250	100	\$0.10	36491	100	250 and 600	100	\$0.50
36488	30	600	100	.14	36492	200	250 and 600	100	1.10
36489	60	250	100	.20	36493	400	250 and 600	50	3.00
36490	60	600	100	.24	36776	600	250 and 600	20	5.00



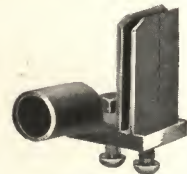
Cat. No. 36491

FUSE CLIPS



Cat. No. 36489

Cat. No.	RATING OF CUT-OUT		Std. Pkg.	List Price	Cat. No.	RATING OF CUT-OUT		Std. Pkg.	List Price
	Amp.	Volts				Amp.	Volts		
36501	30	250	100	\$0.03	36505	100	250 and 600	100	\$0.14
36502	30	600	100	.06	36506	200	250 and 600	100	.30
36503	60	250	100	.06	42861	400	250 and 600	50	1.00
36504	60	600	100	.09	36777	600	250 and 600	20	2.50



Cat. No. 36493

TERMINALS

Cat. No.	RATING OF CUT-OUT		Std. Pkg.	List Price	Cat. No.	RATING OF CUT-OUT		Std. Pkg.	List Price
	Amp.	Volts				Amp.	Volts		
32550	60	250 and 600	100	\$0.08	32554	400	250 and 600	50	\$0.80
32551	100	250 and 600	100	.15	36050	600	250 and 600	20	1.20
51884	200	250 and 600	100	.35					

BACK CONNECTED
FUSE CLIPS, COMPLETE, WITH STUDS

Cat. No.	RATING OF CUT-OUT		Std. Pkg.	List Price	Cat. No.	RATING OF CUT-OUT		Std. Pkg.	List Price
	Amp.	Volts				Amp.	Volts		
36807	30	250	100	\$0.25	39437	100	250 and 600	100	\$2.00
39435	30	600	100	.30	39438	200	250 and 600	100	3.40
36808	60	250	100	.44	39439	400	250 and 600	50	6.00
39436	60	600	100	.50	39440	600	250 and 600	20	10.00

CUT-OUTS AND FUSES

GE ENCLOSED FUSE CUT-OUTS

The cut-outs and fuses listed on the following pages were standard previous to the adoption of the National Code cut-outs and fuses listed on pages 233 to 238 inclusive. They are catalogued purely as a means of convenience to customers who have cut-outs of the older style installed on their premises and who, in purchasing new cut-outs, desire to preserve the symmetry of their boards, etc.

The General Electric Company strongly recommends the purchase of the New Code devices.

Cat. No.	Amp.	Description	Volts	Standard Package	List Price
9551	30	Double-pole main line	250	50	\$0.85
9552	30	Triple-pole main line	250	50	1.30
9553	30	Double-pole single branch	250	50	1.00
9554	30	Triple-pole single branch	250	50	1.85
51760	30	Double-pole double branch	250	25	1.50
51852	30	Single-pole main line (Instrument protective)	250	50	.40
23880	60	Single-pole	250	50	.75
21466	100	Single-pole	250	50	1.40
25099	200	Single-pole	250	50	4.00
26397	400	Single-pole	250	25	10.00
23886	10	Single-pole	500	50	.64
11466	30	Single-pole	500	50	.80
21474	100	Single-pole	500	50	1.75
25738	200	Single-pole	500	50	4.00
27300	400	Single-pole	500	25	10.00

Catalogue Number of cut-out does not include fuses.

GE ENCLOSED FUSES

15 AMPERES, 250 VOLTS, FOR OLD CODE CUT-OUTS, CAT. NOS. 29390-29397 INCLUSIVE

Cat. No.	Rated Amp. Cap.	Standard Package	List Price
33561	3	100	\$0.18
33562	5	100	.18
33563	8	100	.18
33564	10	100	.18
33565	15	100	.18

NOTE.—Length of fuse is $1\frac{3}{4}$ "; diameter of cap, $\frac{9}{16}$ ".

FOR USE IN 250 VOLT CUT-OUTS, CAT. NOS. 9551, 9552, 9553, 9554, 51760

Length of fuse, $2\frac{1}{2}$ "; diam. of cap, $\frac{5}{8}$ ".

Cat. No.	Amp. Cap.	Standard Package	List Price	Cat. No.	Amp. Cap.	Standard Package	List Price
9555	3	100	\$0.25	9559	20	100	\$0.25
9556	6	100	.25	9560	25	100	.25
9557	10	100	.25	9561	30	100	.25
9558	15	100	.25				

FOR USE IN 60 AMPERE, 250 VOLT SINGLE-POLE CUT-OUT, CAT. NO. 23880

Length of fuse, $4\frac{1}{8}$ "; diam. of cap, $\frac{15}{16}$ ".

23881	30	100	\$0.35	21468	50	100	\$0.35
23882	35	100	.35	23884	55	100	.35
21467	40	100	.35	23885	60	100	.35
23883	45	100	.35				

FOR USE IN 100 AMPERE, 250 VOLT SINGLE-POLE CUT-OUT, CAT. NO. 21466.

Length over blades, $6\frac{1}{8}$ "; width of blade, $\frac{3}{4}$ "; length of blade, $1\frac{3}{16}$ ".

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
21469	60	50	\$0.90	\$0.60	21472	90	50	\$0.90	\$0.60
21470	70	50	.90	.60	21473	100	50	.90	.60
21471	80	50	.90	.60					

CUT-OUTS AND FUSES

GE ENCLOSED FUSES (Continued)

FOR USE IN 200 AMPERE, 250 VOLT SINGLE-POLE CUT-OUT, CAT. NO. 25099

Length over blades, $7\frac{3}{8}$ "; width of blade, 1"; length of blade, $1\frac{3}{8}$ ".

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
25596	100	25	\$2.00	\$0.90	25599	175	25	\$2.00	\$0.90
25597	125	25	2.00	.90	25737	200	25	2.00	.90
25598	150	25	2 00	.90					

FOR USE IN 400 AMPERE, 250 VOLT SINGLE-POLE CUT-OUT, CAT. NO. 26397

Length over blades, $8\frac{3}{8}$ "; width of blade, $1\frac{3}{8}$ "; length of blade, $1\frac{3}{8}$ ".

26398	200	25	\$3.60	\$1.50	26749	325	25	\$3.60	\$1.50
26399	225	25	3.60	1.50	26750	350	25	3.60	1.50
26746	250	25	3.60	1.50	26751	375	25	3.60	1.50
26747	275	25	3.60	1.50	26752	400	25	3.60	1.50
26748	300	25	3.60	1.50					

FOR USE IN 10 AMPERE, 500 VOLT SINGLE-POLE CUT-OUT, CAT. NO. 23886

Length of fuse, $4\frac{1}{16}$ "; diameter of cap, $\frac{9}{16}$ ".

Cat. No.	Amp. Cap.	Standard Package	List Price	Cat. No.	Amp. Cap.	Standard Package	List Price
23887	1	100	\$0.40	21462	6	100	\$0.40
23888	2	100	.40	9562	10	100	.40
21461	3	100	.40				

FOR USE IN 30 AMPERE 500 VOLT SINGLE-POLE CUT-OUT, CAT. NO. 11466

Length of fuse, $5\frac{1}{4}$ "; diameter of cap, $\frac{13}{16}$ ".

23889	10	100	\$0.40	51876	25	100	\$0.40
21463	15	100	.40	21465	.30	100	.40
21464	20	100	.40				

FOR USE IN 100 AMPERE, 500 VOLT SINGLE-POLE CUT-OUT, CAT. NO. 21474

Length over blades, 8"; width of blade, $\frac{3}{4}$ "; length of blade $1\frac{3}{16}$ ".

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
23890	30	50	\$1.50		21477	60	50	\$1.50	\$0.80
23208	35	50	1.50		21478	70	50	1.50	.80
21475	40	50	1.50		21479	80	50	1.50	.80
23891	45	50	1.50		21480	90	50	1.50	.80
21476	50	50	1.50		21481	100	50	1.50	.80
23892	55	50	1.50						

FOR USE IN 200 AMPERE, 500 VOLT SINGLE-POLE CUT-OUT, CAT. NO. 25738

Length over blades, $8\frac{7}{8}$ "; width of blade, 1"; length of blade, $1\frac{3}{8}$ ".

25739	100	25	\$2.50	\$1.20	25742	175	25	\$2.50	\$1.20
25740	125	25	2.50	1.20	25743	200	25	2.50	1.20
25741	150	25	2.50	1.20					

CUT-OUTS AND FUSES**GE ENCLOSED FUSES (Continued)****FOR USE IN 400 AMPERE, 500 VOLT CUT-OUT, CAT. NO. 27300**Length over blades, $10\frac{3}{4}"$; width of blade, $1\frac{3}{8}"$; length of blade, $\frac{7}{8}"$.

Cat. No.	Amp. Cap.	Standard Package	LIST PRICE		Cat. No.	Amp. Cap.	Standard Package	LIST PRICE	
			Fuse	Refilling				Fuse	Refilling
24342	200	25	\$5.50	\$2.00	26755	325	25	\$5.50	\$2.00
26753	225	25	5.50	2.00	26756	350	25	5.50	2.00
24343	250	25	5.50	2.00	26757	375	25	5.50	2.00
26754	275	25	5.50	2.00	22979	400	25	5.50	2.00
24344	300	25	5.50	2.00					

FOR USE IN INSTRUMENT PROTECTIVE CUT-OUT, CAT. NO. 51852Length of fuse, $2\frac{1}{2}"$; diameter of cap, $\frac{5}{8}"$.

Cat. No.	Standard Package	List Price
*51853	100	\$0.25
21452	100	.40

*Also used with 500 volt Electrostatic Ground Detectors.

600 VOLT FUSE FOR USE IN COMBINED SWITCH AND CUT-OUT CAT. NO. 27682Length of fuse, $3\frac{3}{16}"$; diameter of cap, $\frac{9}{16}"$.

Cat. No.	Amp. Cap.	Standard Package	List Price
28839	3	100	\$0.30

600 VOLT FUSES FOR TRAIN CONTROL EQUIPMENT

Cat. No.	Amp. Cap.	Length in In.	Diameter of Cap in In.	Standard Package	List Price	Cat. No.	Amp. Cap.	Length in In.	Diameter of Cap in In.	Standard Package	List Price
42514	3	$4\frac{1}{4}$	$\frac{1}{2}$	100	\$0.40	37801	20	$4\frac{1}{4}$	$\frac{1}{2}$	100	\$0.40
23953	4	$4\frac{1}{4}$	$\frac{1}{2}$	100	.40	26789	25	$4\frac{1}{4}$	$\frac{1}{2}$	100	.40
42398	5	$4\frac{1}{4}$	$\frac{1}{2}$	100	.40	37802	30	$4\frac{1}{4}$	$\frac{1}{2}$	100	.40
29177	10	$4\frac{1}{4}$	$\frac{1}{2}$	100	.40	37803	40	$4\frac{1}{4}$	$\frac{1}{2}$	100	.60
37800	15	$4\frac{1}{4}$	$\frac{1}{2}$	100	.40						

GE RENEWABLE FUSE PLUGS AND RELOADS, 30 AND 60 AMPERES, 250 VOLTS

This device consists of a brass tube, the exposed parts of which are insulated by a porcelain shell. In the upper end is fitted a spring clip to receive the ferrule contact of the reload; the ferrule on the other ends forms the center contact of the plug. It will be readily seen that by the use of this device the plug may be made to serve for a large range of fuse capacities.

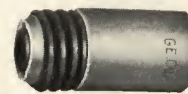
FUSE PLUG CASINGS

Order by the package, if possible.



Cat. No. 36093

Cat. No.	Amp.	Volts	Standard Package	List Price
36093	0-30	250	100	\$0.18
36094	31-60	250	100	.36

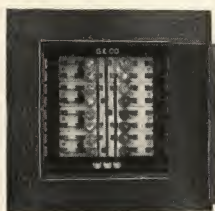


Cat. No. 36094

Cat. No. of casing does not include reload.

CUT-OUTS AND FUSES

COMBINED SWITCH AND PLUG CUT-OUTS (Concluded)

KNOCK-DOWN CABINETS FOR USE WITH 15 AMP. 125 VOLT COMBINED
SWITCH AND PLUG CUT-OUTS

Cat. No. 46732

Cat. No.	Description	DIMENSIONS IN INCHES		Standard Package	List Price
		Box (outside)	Trim		
46732	Cabinet for 1 to 8 circuits	15 x 15 x 4 $\frac{1}{2}$	21 $\frac{1}{2}$ x 21 $\frac{1}{2}$	10	\$6.50
46733	Cabinet for 9 to 12 circuits	15 x 21 $\frac{1}{2}$ x 4 $\frac{1}{2}$	21 $\frac{1}{2}$ x 28 $\frac{1}{2}$	5	9.00
46734	Cabinet for 13 to 16 circuits	15 x 28 x 4 $\frac{1}{2}$	21 $\frac{1}{2}$ x 34 $\frac{1}{2}$	5	11.50
46735	Cabinet for 17 to 20 circuits	15 x 34 x 4 $\frac{1}{2}$	21 $\frac{1}{2}$ x 40 $\frac{1}{2}$	5	14.00

These cabinets are shipped unassembled in as compact a package as it is possible to make. They are lined throughout with $\frac{1}{4}$ in. asbestos.

The Door and Trim are furnished plain, so that they can be finished with the rest of the woodwork in the place where installed.

By using these cabinets with double or single branch combined switch and plug cutouts, the cheapest and yet a very neat installation of panel boards can be readily made.

COMBINED PUNCHED CLIP LEVER SWITCHES AND PLUG CUT-OUTS
IN IRON BOXES

FOR 125 AND 250-VOLT SERVICE

These devices consist of the General Electric Company's combined switch and cut-outs mounted in substantial iron boxes. Each box is provided with porcelain bushings for the entrance holes. Also a means by which the cover may be provided with a sealing wire to prevent its being opened by unauthorized persons.

The boxes should always be installed with the hinges at the top, so the covers will be self-closing.

Although regularly supplied with porcelain bushings for the entrance holes, the Cat. Nos. 45008 to 45017 boxes can be drilled at each end with single holes for metal conduit.

These are not carried in stock, but are supplied only when so ordered. The order must state the size of conduit and whether one or both ends of the box are to be drilled for it. The prices are the same as for the standard boxes.



Cat. No. 45008

Cat. No.	Description	Standard Package	List Price
45008	D.P.S.T. 25 Amp. 125 Volt Bottom service connections	25	\$3.00
45009	D.P.S.T. 25 Amp. 125 Volt Top service connections	25	3.00
45010	D.P.S.T. 30 Amp. 250 Volt Bottom service connections	25	3.50
45011	D.P.S.T. 30 Amp. 250 Volt Top service connections	25	3.50
45012	T.P.S.T. 30 Amp. 250 Volt Bottom service connections	15	4.50
45013	T.P.S.T. 30 Amp. 250 Volt Top service connections	15	4.50
45014	D.P.S.T. 60 Amp. 250 Volt Bottom service connections	10	7.25
45015	D.P.S.T. 60 Amp. 250 Volt Top service connections	10	7.25
45016	T.P.S.T. 60 Amp. 250 Volt Bottom service connections	10	9.50
45017	T.P.S.T. 60 Amp. 250 Volt Top service connections	10	9.50

IRON BOXES WITH DOUBLE BRANCH PLUG CUT-OUTS

Cat. No.	Description	Standard Package	List Price
58714	Double Pole, double branch Plug Cut-out in iron box	10	\$3.40
58715	Three-wire main, two-wire double branch Plug Cut-out in iron box	10	3.50

CUT-OUTS AND FUSES

FUSE BOXES

IRON BOXES WITH CUT-OUTS FOR N.E.C.S. ENCLOSED FUSES

These will be found to be very suitable for motor installations and for other classes of service where for any reason the cut-outs on the circuit must be enclosed. It will be noted that these boxes are furnished with porcelain bushings for open wiring. The boxes can be furnished promptly, drilled for conduit if the size of the conduit is stated on the order, or can be furnished without drilling so that the boxes can be drilled on the job to suit the conditions, at the same list prices as given for the standard boxes.

FOR 250 VOLTS

Cat. No.	Description	Std. Pkg.	List Price
48709	30 Amp. 250 volt Double Pole Cut-out in iron box	10	\$3.00
48710	30 Amp. 250 volt Triple Pole Cut-out in iron box	10	3.25
58716	30 Amp. 250 volt Two Wire Main, Double Branch Cut-out in iron box	10	4.25
58717	30 Amp. 250 volt Three Wire Main, Two Wire Double Branch Cut-out in iron box	10	5.00
48711	60 Amp. 250 volt Double Pole Cut-out in iron box	10	4.00
48712	60 Amp. 250 volt Triple Pole Cut-out in iron box	10	4.50
58718	60 Amp. 250 volt Two Wire Main, Double Branch Cut-out in iron box	10	9.00
58719	60 Amp. 250 volt Three Wire Main, Two Wire Double Branch Cut-out in iron box	10	10.00
48713	100 Amp. 250 volt Double Pole Cut-out in iron box	5	5.50
48714	100 Amp. 250 volt Triple Pole Cut-out in iron box	5	7.50
59643	200 Amp. 250 volt Double Pole Cut-out in iron box	5	10.00
59644	200 Amp. 250 volt Triple Pole Cut-out in iron box	5	13.00



Cat. No. 48711

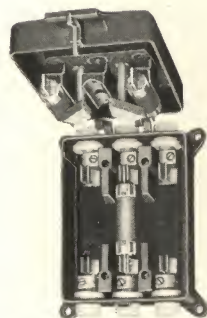
FOR 600 VOLTS

48715	30 Amp. 600 volt Double Pole Cut-out in iron box	10	\$4.00
48716	30 Amp. 600 volt Triple Pole Cut-out in iron box	10	4.50
48717	60 Amp. 600 volt Double Pole Cut-out in iron box	10	5.00
48718	60 Amp. 600 volt Triple Pole Cut-out in iron box	10	6.00
48719	100 Amp. 600 volt Double Pole Cut-out in iron box	5	7.50
48720	100 Amp. 600 volt Triple Pole Cut-out in iron box	5	10.00

SERVICE SWITCH BOXES

250 VOLTS

Cat. No.	Description	Amp. Capacity of Fuse	Std. Pkg.	List Price	Cat. No.	Description	Amp. Capacity of Fuse	Std. Pkg.	List Price
64010	Double pole	0- 30	25	\$7.25	64016	Double pole	101-200	20	\$20.50
64022	Triple pole	0- 30	25	9.00	64025	Triple pole	101-200	20	26.00
64012	Double pole	31- 60	25	8.25	64018	Double pole	201-400	20	42.00
64023	Triple pole	31- 60	25	10.00	64026	Triple pole	201-400	20	56.00
64014	Double pole	61-100	25	12.50	64020	Double pole	401-600	10	70.00
64024	Triple pole	61-100	25	15.00	64027	Triple pole	401-600	10	96.00



CONDUIT HOODS FOR ABOVE BOXES

Cat. No.	Style of Connection	Amp. Capacity of Box	Std. Pkg.	List Price	Cat. No.	Style of Connection	Amp. Capacity of Box	Std. Pkg.	List Price
64028	Straight	30	50	\$1.00	64037	Straight	200	40	\$2.50
64029	Back	30	50	1.00	64038	Back	200	40	2.50
64030	Side	30	50	1.00	64039	Side	200	40	2.50
64031	Straight	60	50	1.20	64040	Straight	400	40	4.75
64032	Back	60	50	1.20	64041	Back	400	40	4.75
64033	Side	60	50	1.20	64042	Side	400	40	4.75
64034	Straight	100	50	1.65	64043	Straight	600	20	9.50
64035	Back	100	50	1.65	64044	Back	600	20	9.50
64036	Side	100	50	1.65	64045	Side	600	20	9.50

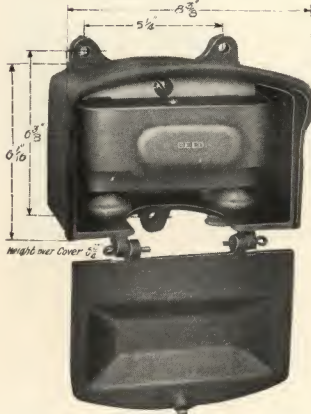
CUT-OUTS AND FUSES

PRIMARY CUT-OUTS AND FUSES FOR POLE LINE USE



Cat. No.	Description	List Price
51874	Single pole insulator type Primary Cut-out 30 amperes 2500 volts, 15 amperes 3500 volts	\$1.50

FUSES FOR USE IN CAT. No. 51874 INSULATOR TYPE OF PRIMARY CUT-OUT



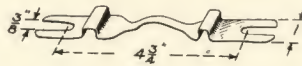
Cat. No. 5696



Cat. No.	Rated Amp. Cap.	List Price	Cat. No.	Rated Amp. Cap.	List Price
23174	1	\$0.03	23180	15	\$0.03
23175	2	.03	23181	20	.03
23176	3	.03	23182	25	.03
23178	5	.03	23183	30	.03
23179	10	.03			

Cat. No.	Description	List Price
5696	Single pole expulsion Fuse Block mounted in iron box, 100 amperes 2500 volts	\$11.00

FUSES FOR CAT. No. 5696 100 AMPERES—2500 VOLT—EXPULSION FUSE BOX



Cat. No.	Rated Amp. Cap.	List Price	Cat. No.	Rated Amp. Cap.	List Price	Cat. No.	Rated Amp. Cap.	List Price	Cat. No.	Rated Amp. Cap.	List Price
9421	10	\$0.05	9425	30	\$0.05	23157	60	\$0.05	23159	80	\$0.05
9422	15	.05	9426	40	.05	23158	70	.05	23160	90	.05
9423	20	.05	9427	50	.05	9428	75	.05	9429	100	.05
9424	25	.05									

Cat. No.	Description	List Price
8228	Single pole primary fuse block mounted in iron box; suitable for 3000 to 30000 watt transformers of standard voltages, 10 amperes, 3000 volts	\$3.50

FUSES FOR USE IN CAT. No. 8228 PRIMARY SWITCH AND FUSE BOX



Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
23126	1	\$0.12	14345	10	\$0.12
23127	2	.12	14346	15	.12
14343	3	.12	14347	20	.12
23128	4	.12	14348	25	.12
14344	5	.12	14349	30	.12

FUSES FOR USE IN CAT. No. 8290 PRIMARY SWITCH AND FUSE BOX



Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
7962	3	\$0.03	7966	20	\$0.03
7963	5	.03	7967	25	.03
7964	10	.03	7968	30	.03
7965	15	.03			

CUT-OUTS AND FUSES

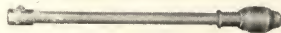
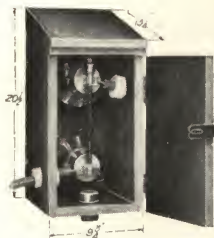
PRIMARY CUT-OUTS AND FUSES FOR POLE LINE USE (Concluded)

FUSES FOR USE IN CAT. No. 24381 B.T. PRIMARY CUT-OUT

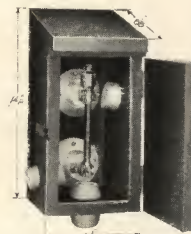
Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
25747	1	\$0.03	25750	5	\$0.03
25748	2	.03	25751	8	.03
25749	3	.03			

PRIMARY CUT-OUTS AND FUSES FOR POLE LINE USE

15 AMPERES, 6600 VOLTS—10 AMPERES, 15000 VOLTS

Cat. No. 46128 Fuse Holder for
Use in Cat. No. 44304Cat. No. 46129 Fuse Holder for Use in
Cat. No. 45483Cat. No. 45483
10 Ampere, 15000 Volts

Cat. No.	Description	List Price
44304	15 Amperes 6000 Volt Primary Cut-out complete with fuse holder enclosed in wooden box for outdoor use	\$7.50
46128	15 Amperes 6600 Volt Expulsion Fuse Holder complete without fuse. For use in Cat. No. 44304 Primary Cut-out	1.75
45483	10 Amperes 15000 Volt Primary Cut-out complete with fuse holder enclosed in wooden box for outdoor use	27.50
46129	10 Amperes 15000 Volt Expulsion Fuse Holder complete without fuse. For use in Cat. No. 45483 Primary Cut-out	2.30
58963	Hook for pulling fuse holders	2.30

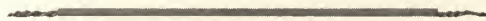
Cat. No.
58963
Hook for
Pulling
Fuse
Holders

FUSES FOR CAT. NO. 44304

For use in (Cat. No. 46128) fuse holder for (Cat. No. 44304) cut-out.

FUSES FOR CAT. NO. 45483

For use in (Cat. No. 46129) fuse holder for (Cat. No. 45483) cut-out.



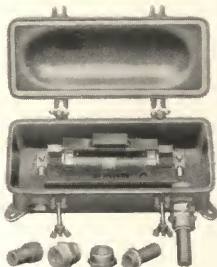
10 1/4"



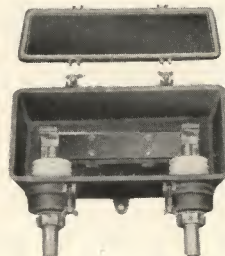
12 1/4"

Cat. No.	Description	List Price Each	Cat. No.	Description	List Price Each
45000	1 Ampere Fuse	\$0.40	45484	1 Ampere Fuse	\$0.40
45001	2 Ampere Fuse	.40	45485	2 Ampere Fuse	.40
45002	3 Ampere Fuse	.40	45486	3 Ampere Fuse	.40
45003	5 Ampere Fuse	.40	45487	5 Ampere Fuse	.40
45004	8 Ampere Fuse	.40	45488	8 Ampere Fuse	.40
45005	10 Ampere Fuse	.40	45489	10 Ampere Fuse	.40
45006	12 Ampere Fuse	.40			
45007	15 Ampere Fuse	.40			

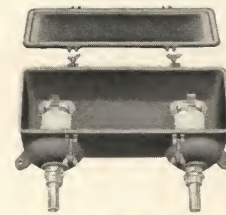
PRIMARY CUT-OUTS AND FUSES FOR SUBWAY USE



Cat. No. 27459



Cat. No. 58001



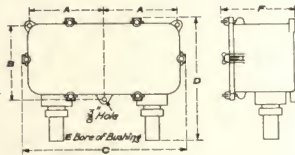
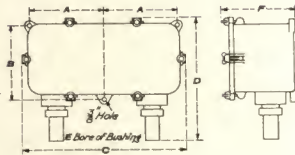
Cat. No. 49046

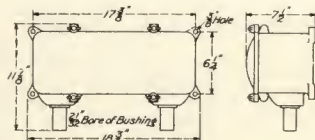
Cat. No.	Description	List Price
27459	30 Amperes, 2500 Volt Subway Fuse Box, complete without fuse	\$12.50
58001	60 Amperes, 2500 Volt Subway Fuse Box, complete without fuse	18.50
58002	125 Amperes, 2500 Volt Subway Fuse Box, complete without fuse	25.00
49046	15 Amperes, 6600 Volt Subway Fuse Box, complete without fuse	25.00

CUT-OUTS AND FUSES

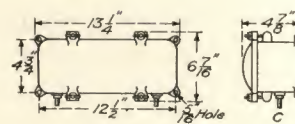
PRIMARY CUT-OUTS AND FUSES FOR SUBWAY USE (Concluded)

DIMENSIONS—BOXES

Cat. No.	Volts	Amps.	DIMENSIONS IN INCHES						
			A	B	C	D	E	F	
58001	2500	60	6 1/2	7 1/2	14 1/2	11 7/8	1 1/2	6 3/4	
58002	2500	125	7 1/8	7 3/4	16 1/8	12 1/8	1 1/4	7	



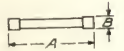
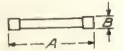
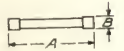
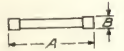
Cat. No. 49046



Cat. No. 27459

FUSES FOR CAT. NO. 27459

DIMENSIONS OF FUSES

Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Cat. No.	Amp. Cap.	Std. Pkg.	List Price	
27460	3	100	\$0.46	27466	20	100	\$0.60	
27461	5	100	.46	27467	25	100	.60	
27462	8	100	.46	27468	30	100	.60	
27463	10	100	.46					
27464	12	100	.46					
27465	15	100	.46	*29307	40	100	.75	
				*29308	50	100	.75	

*Cat. Nos. 29307 and 29308 Fuses were made for Cat. No. 29306 box. This box is now superseded by the Cat. No. 58001 box.

FUSES FOR CAT. NO. 58001

Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Cat. No.	Amp. Cap.	Std. Pkg.	List Price
58003	35	100	\$1.50	58006	50	100	\$1.50
58004	40	100	1.50	58007	55	100	1.50
58005	45	100	1.50	58008	60	100	1.50

FUSES FOR CAT. NO. 58002

Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Refilling List Price	Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Refilling List Price
58009	65	50	\$2.40	\$1.20	58014	100	50	\$2.40	\$1.20
58010	70	50	2.40	1.20	58015	110	50	2.40	1.20
58011	75	50	2.40	1.20	58016	120	50	2.40	1.20
58012	80	50	2.40	1.20	58017	125	50	2.40	1.20
58013	90	50	2.40	1.20					

DIMENSIONS OF FUSES

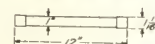
Volts	Amps.	DIMENSIONS IN INCHES					
		A	B	C	D	E	F
2500	31-60	9 3/4	7 3/4	1	1 1/2	3/4	1 1/8
2500	61-125	11 3/8	9	1 1/8	1 3/4	1 1/8	1 3/8



FUSES FOR CAT. NO. 49046

Cat. No.	Amp. Cap.	Std. Pkg.	List Price	Refilling List Price
49047	3	25	\$1.30	\$1.05
49048	5	25	1.30	1.05
49049	8	25	1.30	1.05
49050	10	25	1.30	1.05
49051	12	25	1.30	1.05
49052	15	25	1.30	1.05

DIMENSIONS



CUT-OUTS AND FUSES

FUSE WIRE

The Fuse Wire manufactured by the General Electric Company possesses valuable features not embodied in other fuse wires.

One of the essentials of good fuse wire is that the blowing point remains constant no matter to what exposure the fuse wire is put. If the fuse wire is composed of practically pure lead, as is often the case, it will, after having been installed for some time, become oxidized, forming a tube of hard oxide. If an overload occurs, this tube holds the molten fuse metal until an excessive current is passing through it. This may result in serious injury either to the apparatus which is supposed to be protected or to the building in which the fuses are installed.

The General Electric Company's fuse wire is made of an alloy which, while more expensive, does not oxidize. Attention is called to the fact that these fuse wires when used in one-inch lengths fuse at 25% above the rated capacity, thus meeting the requirements of the National Board of Fire Underwriters.

Another valuable feature of this wire is the ease with which it can be soldered to copper tips. The proper soldering of pure lead wire to copper tips is exceedingly difficult. Customers will appreciate the value of a fuse with a copper tip and also the value of a wire which lends itself to their use in this way.

STANDARD FUSE WIRE FOR ROSETTES, CUT-OUTS, ETC.

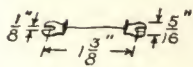
These ratings are for fuse lengths of one inch between terminals.

Amp. Cap.	Approx. Ft. per Lb.	List Price per Lb.	Amp. Cap.	Approx. Ft. per Lb.	List Price per Lb.	Amp. Cap.	Approx. Ft. per Lb.	List Price per Lb.	Amp. Cap.	Approx. Ft. per Lb.	List Price per Lb.
3	1032	\$1.40	20	104	\$0.75	45	38	\$0.70	75	19½	\$0.70
6	500	.90	25	81	.75	50	33	.70	80	18	.70
10	256	.80	30	64	.70	55	29	.70	90	15	.70
12	196	.80	35	52	.70	60	26	.70	100	13	.70
15	155	.75	40	43	.70	70	22	.70			

Standard Package quantity, 10 lbs. or over, assorted sizes.

NOTE.—Particular attention is called to the fact that General Electric Fuse Wire contains from two to three times as much wire per pound as fuse wires of other manufacture.

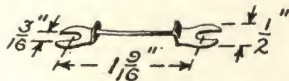
STANDARD LINK FUSES

FUSES FOR FIXTURE AND CEILING
CUT-OUTS, ETC.FUSES FOR LINK FUSE CUT-OUTS
CENTER TO CENTER 1 1/2"

Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
66345	3	\$0.02	66349	10	\$0.02	66351	3	\$0.02	66357	10	\$0.02
66347	6	.02				66355	6	.02	66361	15	.02

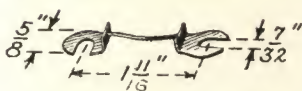
Standard package quantity, 100.

FUSES FOR LINK FUSE CUT-OUTS AND STATION SWITCHES



Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
66373	10	\$0.03	66385	35	\$0.03
66377	15	.03	66387	40	.03
66379	20	.03	66389	45	.03
66381	25	.03	66391	50	.03
66383	30	.03			

Standard package quantity, 100.



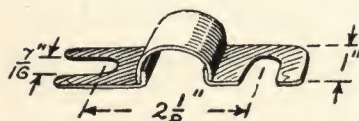
Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
66407	30	\$0.03	66421	70	\$0.03
66409	35	.03	66423	75	.03
66411	40	.03	66425	80	.03
66412	45	.03	66427	85	.03
66413	50	.03	66429	90	.03
66415	55	.03	66431	95	.03
66417	60	.03	66433	100	.03
66419	65	.03			

Standard package quantity, 100.

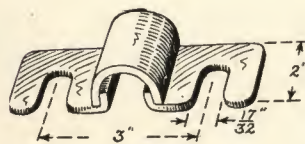
CUT-OUTS AND FUSES

STANDARD LINK FUSES (Continued)

FUSES FOR STATION SWITCHES, FUSE BLOCKS, JUNCTION BOXES, ETC.



Type 88



Type 93

Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
51277	25	\$0.15	66467	260	\$0.20
51278	30	.15	66469	270	.20
51279	40	.15	66471	280	.20
51280	50	.15	66473	290	.20
51281	60	.15	66475	300	.20
51282	70	.15	66477	310	.20
51283	75	.15	66479	320	.20
51284	80	.15	66481	330	.20
51285	90	.15	66483	340	.20
66435	100	.15	66485	350	.20
66437	110	.15	66487	360	.30
66439	120	.15	66493	370	.30
66441	130	.15	66495	380	.30
66443	140	.15	66497	390	.30
66445	150	.15	66499	400	.30
66447	160	.15	66501	410	.30
66449	170	.15	66503	420	.30
66451	180	.15	66505	430	.30
66453	190	.15	66515	440	.30
66455	200	.15	66517	450	.30
66457	210	.20	66519	460	.30
66459	220	.20	66521	470	.30
66461	230	.20	66523	480	.30
66463	240	.20	66525	490	.30
66465	250	.20	66527	500	.30

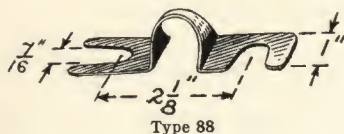
Standard package quantity, 50.

66426	300	\$0.60	66434	700	\$0.75
66428	400	.60	66436	800	.75
66430	500	.70	66438	900	.80
66432	600	.75	66440	1000	.80

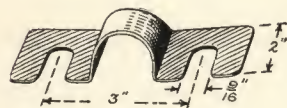
Standard package quantity, 25.

FUSES FOR STATION SWITCHES, FUSE BLOCKS, JUNCTION BOXES, ETC.

These fuses are punched in one piece from sheet copper and are designed for the protection of underground systems in the case of a dead short circuit only. They are marked with the normal current which they will carry without undue heating. The rupture of the arc with these fuses is most satisfactory, and owing to their higher conductivity the heating at the normal carrying capacity is less than with alloy fuses. They are not recommended as a protection against overloads.



Type 88



Type 93

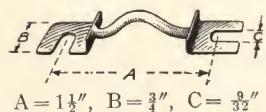
Cat. No.	Amp. Cap.	List Price Per 100	Cat. No.	Amp. Cap.	List Price Per 100
68886	250	\$0.10	68892	550	\$0.10
68887	300	.10	68893	600	.10
68888	350	.10	68894	650	.10
68889	400	.10	68895	700	.10
68890	450	.10	68896	750	.10
68891	500	.10			

Standard package quantity, 50.

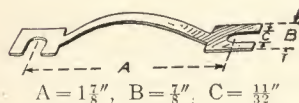
68897	500	\$17.50	68903	1100	\$17.50
68898	600	17.50	68904	1200	17.50
68899	700	17.50	68905	1300	17.50
68900	800	17.50	68906	1400	17.50
68901	900	17.50	68907	1500	17.50
68902	1000	17.50			

Standard package quantity, 25.

FUSES FOR USE ON 125 VOLT FORM D FUSE BLOCKS AND LEVER SWITCHES



A = 1 1/2", B = 3/4", C = 3/32"



A = 1 1/8", B = 7/8", C = 1/32"

23068	10	\$0.10	23119	60	\$0.10
23069	15	.10	23120	70	.10
23070	20	.10	23121	75	.10
23071	25	.10	23122	80	.10
23072	30	.10	23123	90	.10
23073	40	.10	23124	100	.10
23118	50	.10			
23129	100	\$0.15	23132	175	\$0.15
23130	125	.15	23133	200	.15
23131	150	.15			

CUT-OUTS AND FUSES

STANDARD LINK FUSES (Continued)

FUSES FOR USE ON 250 VOLT FORM D FUSE BLOCKS AND LEVER SWITCHES

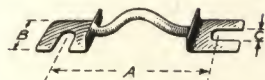
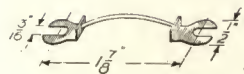


Fig. 1

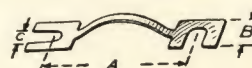


Fig. 2

See Fig. 1. $A = 2\frac{1}{8}"$, $B = \frac{3}{4}"$, $C = \frac{9}{32}"$.

Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
23134	5	\$0.03	23139	30	\$0.03
23135	10	.03	23140	35	.03
23136	15	.03	23141	40	.03
23137	20	.03	23142	45	.03
23138	25	.03	23143	50	.03

See Fig. 2. $A = 2\frac{3}{8}"$, $B = \frac{7}{8}"$, $C = \frac{13}{32}"$.

51226	100	\$0.15	51229	175	\$0.15
51227	125	.15	51230	200	.15
51228	150	.15			

See Fig. 2. $A = 2\frac{1}{2}"$, $B = 1"$, $C = \frac{13}{32}"$.

51231	225	\$0.15	51233	275	\$0.15
51232	250	.15	51234	300	.15

See Fig. 2. $A = 3\frac{3}{8}"$, $B = 1\frac{3}{8}"$, $C = \frac{13}{32}"$.

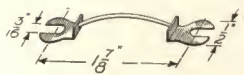
36509	300	\$0.20	36514	425	\$0.20
36510	325	.20	36515	450	.20
36511	350	.20	36516	475	.20
36512	375	.20	36517	500	.20
36513	400	.20			

See Fig. 2. $A = 4$, $B = 2"$, $C = \frac{17}{32}"$.

51262	500	\$0.30	51266	700	\$0.30
51263	550	.30	51267	750	.30
51264	600	.30	51268	800	.30
51265	650	.30			

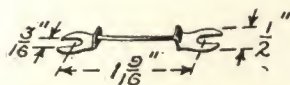
LINK FUSES FOR TYPE L, FORM D-12 LEVER SWITCHES

FUSES FOR 30 AMPERE SWITCHES



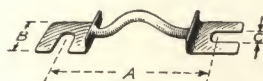
Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
23134	5	\$0.03	23137	20	\$0.03
23135	10	.03	23138	25	.03
23136	15	.03	23139	30	.03

FUSES FOR 60 AMPERE SWITCHES



48279	30	\$0.03	48283	50	\$0.03
48280	35	.03	48284	55	.03
48281	40	.03	48285	60	.03
48282	45	.03			

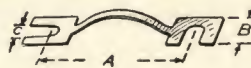
FUSES FOR 100 AMPERE SWITCHES

 $A = 2\frac{1}{8}"$, $B = \frac{3}{4}"$, $C = \frac{9}{32}"$

23151	60	\$0.10	23154	80	\$0.10
23152	70	.10	23155	90	.10
23153	75	.10	23156	100	.10

CUT-OUTS AND FUSES

STANDARD LINK FUSES (Continued)



$$A = 2\frac{3}{4}" , B = 1\frac{3}{8}" , C = \frac{13}{32}"$$

FUSES FOR 200 AMPERE SWITCHES

Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
48286	100	\$0.15	48289	175	\$0.15
48287	125	.15	48290	200	.15
48288	150	.15			

$$A = 2\frac{7}{8}" , B = 1\frac{3}{8}" , C = \frac{13}{32}"$$

FUSES FOR 300 AMPERE SWITCHES

48291	200	\$0.20	48294	275	\$0.20
48292	225	.20	48295	300	.20
48293	250	.20			

$$A = 3\frac{3}{4}" , B = 1\frac{1}{2}" , C = \frac{17}{32}"$$

FUSES FOR 400 AMPERE SWITCHES

48296	300	\$0.30	48299	375	\$0.30
48297	325	.30	48300	400	.30
48298	350	.30			

$$A = 4\frac{1}{16}" , B = 2" , C = \frac{17}{32}"$$

FUSES FOR 600 AMPERE SWITCHES

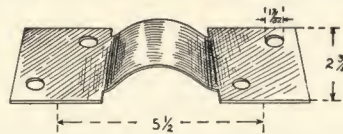
48301	400	\$0.30	51262	500	\$0.30
48302	425	.30	51263	550	.30
48303	450	.30	51264	600	.30
48304	475	.30			

$$A = 4\frac{7}{16}" , B = 2\frac{1}{4}" , C = \frac{21}{32}"$$

FUSES FOR 800 AMPERE SWITCHES

48305	600	\$0.40	48308	750	\$0.40
48306	650	.40	48309	800	.40
48307	700	.40			

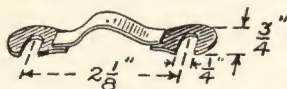
FUSES FOR USE ON 125 OR 250 VOLT FORM D FUSE BLOCKS



Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
23906	800	\$0.60	23909	1100	\$0.60
23907	900	.60	23910	1200	.60
23908	1000	.60			

Fuses for D-12 switches.

FUSES FOR USE IN STANDARD 150 AND 250 AMPERE MAIN RAILWAY MOTOR FUSE BOXES, CAT. NOS. 17428 AND 10986



Cut-Out, Cat. No. 17428—Fig. 1



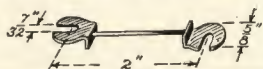
Cut-Out, Cat. No. 10986—Fig. 2

7908	35	\$0.08	51370	100	\$0.12
7909	50	.08	51371	150	.12
7910	75	.08	51372	200	.12
15652	100	.08	51373	250	.12
17429	150	.10			

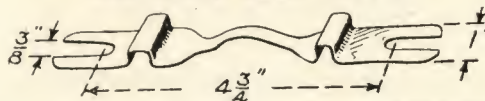
CUT-OUTS AND FUSES

STANDARD LINK FUSES (Continued)

FUSES FOR USE IN 35 AMPERE FORM K MAGNETIC FUSE BOX CAT. NO. 11756



Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
8543	5	\$0.03	8547	25	\$0.03
8544	10	.03	8548	30	.03
8545	15	.03	8549	35	.03
8546	20	.03			

FUSES FOR USE IN CAT. NOS. 26250 AND 5696, 100 AMPERE, 2500 VOLT
EXPULSION FUSE BLOCKS

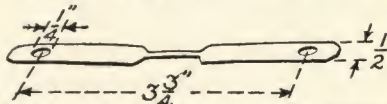
9421	10	\$0.05	23158	70	\$0.05
9422	15	.05	9428	75	.05
9423	20	.05	23159	80	.05
9424	25	.05	23160	90	.05
9425	30	.05	9429	100	.05
9426	40	.05	9430	125	.05
9427	50	.05	9431	150	.05
23157	60	.05			

FUSES FOR USE IN CAT. NO. 50742 DOUBLE EXPULSION FUSE BLOCK FOR
200 AMPERES, 2500 VOLTS

See above.

Two fuses should be ordered, each having one-half the desired capacity. For example, two Cat. No. 9421, equal 20 amperes.

FUSES FOR USE IN CAT. NO. 5697, 50 AMPERE, 5000 VOLT SPRING EXPULSION FUSE BLOCK



8061	10	\$0.40	8065	30	\$0.40
8062	15	.40	8066	40	.40
8063	20	.40	8067	50	.40
8064	25	.40			

FUSES FOR USE IN CAT. NO. 51848, 100 AMPERE, 5000 VOLT SPRING EXPULSION FUSE BLOCK



23162	25	\$0.20	23168	60	\$0.20
23163	30	.20	23169	70	.20
23164	35	.20	23170	80	.20
23165	40	.20	23171	90	.20
23166	45	.20	23172	100	.20
23167	50	.20			

FUSES FOR USE IN CAT. NO. 50710, 150 AMPERE, 5000 VOLT DOUBLE SPRING
EXPULSION FUSE BLOCK

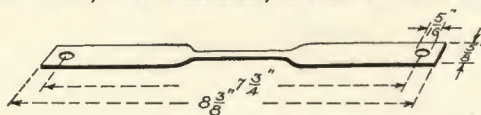
Catalogue number includes two fuses, each one-half rated capacity.

23057	50	\$0.75	23062	90	\$0.75
23058	60	.75	23063	100	.75
23059	70	.75	23064	125	.75
23060	75	.75	23065	150	.75
23061	80	.75			

CUT-OUTS AND FUSES

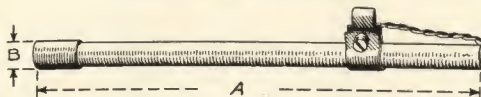
STANDARD LINK FUSES (Concluded)

FUSES FOR USE IN CAT. NO. 50711, 100 AMPERE, 20010 VOLT SPRING EXPULSION FUSE BLOCK



Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
23173	10	\$0.40	23005	50	\$0.50
23000	15	.40	23006	60	.50
23001	20	.40	23007	70	.50
23002	25	.40	23008	80	.50
23003	30	.40	23009	90	.50
23004	40	.40	23010	100	.50

TUBE FUSES FOR SERIES TRANSFORMERS FOR SERIES ARC LIGHTING SYSTEMS



These fuses are rated so as to operate at a low temperature when running at normal capacity and are therefore not intended to take care of an overload but operate immediately on short circuit.

FUSES FOR USE IN 2500 VOLT TUBE EXPULSION FUSE BLOCKS, CAT. NOS. 11505, 11507, 10999

A = 10", B = $\frac{5}{8}$ ".

51286	2½	\$1.50	51293	15	\$1.50
51287	4	1.50	51294	20	1.50
51288	5	1.50	51295	25	1.50
51289	6	1.50	51296	30	1.50
51290	8	1.50	51297	40	1.50
51291	10	1.50	51298	50	1.50
51292	12	1.50	23125	75	1.50

FUSES FOR USE IN 5000 VOLT TUBE EXPULSION FUSE BLOCK, CAT. NO. 11506

A = 12", B = $\frac{5}{8}$ ".

51387	2½	\$2.00	51394	15	\$2.00
51388	4	2.00	51395	20	2.00
51389	5	2.00	51396	25	2.00
51390	6	2.00	51397	30	2.00
51391	8	2.00	51398	40	2.00
51392	10	2.00	51399	50	2.00
51393	12	2.00			

TUBE FUSES FOR USE WITH REACTIVE COILS FOR SERIES INCANDESCENT LIGHTING SYSTEMS

FUSES FOR USE IN 2500 VOLT EXPULSION FUSE BLOCKS, CAT. NOS. 11505, 11507, 10999

These fuses are rated to take care of an overload as well as a short circuit.

A = 10", B = $\frac{5}{8}$ ".

23161	2	\$1.50	51299	5½	\$1.50
51276	3½	1.50			

FUSES FOR USE IN 5000 VOLT TUBE EXPULSION FUSE BLOCK, CAT. NO. 11506

23923	2	\$1.50	23925	5½	\$1.50
23924	3½	1.50			

TUBE FUSES FOR USE WITH CAT. NOS. 24388 AND 51858 FUSE BLOCKS

A = 7", B = $\frac{5}{8}$ ".

24389	1	\$1.50	24391	5	\$1.50
24390	2	1.50	24392	8	1.50
51859	3	1.50	24393	10	1.50

CUT-OUTS AND FUSES

EXPULSION FUSE HOLDERS, TYPE T, FORM D-3

FOR POWER SERVICE

These fuse holders are made for 2500 and 7500 volts and supersede the 2300 and 6600 volt, Type T Forms D and D-2 holders. They are assembled in the form of complete fuse blocks, single-, double- and triple-pole for both voltages, and four-pole for 2500 volts. The 2500 volt fuse holders are mounted on a marble base or directly on the panel. The 7500 volt fuse holders are mounted on one-piece porcelain insulators, which in turn are mounted either on a base or the panel. Catalogue numbers cover fuse blocks and separate fuse holders, but do not include the fuses.

To facilitate the substitution of the Type T Form D-3 fuse holders for the obsolete Type E Form A 2500 volt expulsion fuse blocks, adapters have been designed. These adapters have been made in 100 and 200 ampere sizes, and so designed that the old drilling is entirely covered. An adapter with the addition of a separate fuse holder is the equivalent of a separate fuse block without base.

100 AMPERES 2500 VOLTS

No. of Poles	Mounted	Barriers	FRONT CONNECTED		BACK CONNECTED	
			Cat. No.	List Price	Cat. No.	List Price
1	On Base	Without	59443	\$15.00	59447	\$16.00
2	On Base	With	59444	37.00	59448	38.00
3	On Base	With	59445	59.00	59449	60.00
4	On Base	With	59446	81.00	59450	82.00
1	For Panel	Without			59451	10.00

200 AMPERES 2500 VOLTS

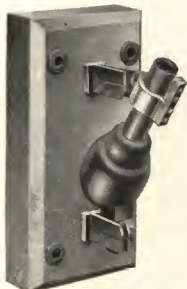
1	On Base	Without	59452	\$21.00	59456	\$22.00
2	On Base	With	59453	51.00	59457	52.00
3	On Base	With	59454	81.00	59458	82.00
4	On Base	With	59455	111.00	59459	112.00
1	For Panel	Without			59460	16.00

100 AMPERES 7500 VOLTS

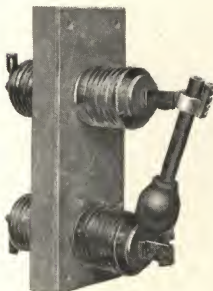
1	On Base	Without	59461	\$22.00	59464	\$24.00
2	On Base	With	59462	52.00	59465	54.00
3	On Base	With	59463	82.00	59466	84.00
1	For Panel	Without			59467	21.00

200 AMPERES 7500 VOLTS

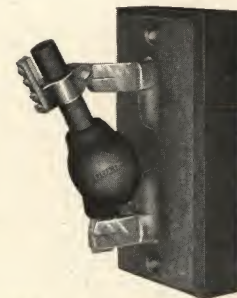
1	On Base	Without	59468	\$28.00	59471	\$30.00
2	On Base	With	59469	65.00	59472	67.00
3	On Base	With	59470	102.00	59473	104.00
1	For Panel	Without			59474	27.00



Single-Pole Fuse Block for 2500 Volts



Single-Pole Fuse Block for 7500 Volts

2500 V., S.P. Type T, Form D3
Expulsion Fuse Holder
with Adapter

SEPARATE HOLDERS—WITHOUT FUSES

SINGLE BARRIERS FOR FUSE BLOCKS

Cat. No.	Volts	Amp.	List Price	Cat. No.	RATING OF FUSE HOLDER		Material	List Price
					Volts	Amp.		
59475	2500	100	\$7.50	75935	2500	100	Marble	\$8.00
59476	2500	200	11.50	75936	2500	200	Marble	10.00
59477	7500	100	9.00	75937	7500	100	Slate	6.00
59478	7500	200	13.00	75938	7500	200	Slate	6.00

OPERATING HOOKS

ADAPTERS

Cat. No.	RATING OF FUSE HOLDER		List Price	Cat. No. of Type E Form A Fuse Block Replaced	Cat. No. of Type T Form D3 Fuse Holder Substituted	Volts	Amp.	ADAPTER	
	Volts	Amp.						Cat. No.	List Price
45229	2500 or 7500	100	\$4.00	29644	59475	2500	100	75088	\$8.00
45230	2500 or 7500	200	4.00	50742	59476	2500	200	75089	13.00

CUT-OUTS AND FUSES

EXPULSION FUSE HOLDERS, TYPE T, FORM D-3 (Concluded)

FUSES FOR 2500 AND 7500 VOLT FUSE HOLDERS

AMP.	2500 VOLTS		7500 VOLTS		AMP.	2500 VOLTS		7500 VOLTS	
Continuous Cur. Carrying Cap.	Cat. No.	List Price	Cat. No.	List Price	Continuous Cur. Carrying Cap.	Cat. No.	List Price	Cat. No.	List Price
5	37788	\$0.10	37794	\$0.10	80	61498	\$0.15	61544	\$0.15
8	37789	.10	37795	.10	90	61499	.15	61545	.15
10	37790	.10	37796	.10	100	61536	.15	61546	.15
15	37791	.10	37797	.10	110	61882	.35	61889	.35
20	61483	.15	61537	.15	125	61883	.35	61890	.35
25	61484	.15	61538	.15	140	61884	.35	61891	.35
30	61485	.15	61539	.15	155	61885	.50	61892	.50
40	61486	.15	61540	.15	170	61886	.50	61893	.50
50	61488	.15	61541	.15	180	61887	.50	61894	.50
60	61489	.15	61542	.15	200	61888	.50	61895	.50
70	61490	.15	61543	.15					

EXPULSION FUSE HOLDERS, TYPE T, FORM D-2

FOR POTENTIAL TRANSFORMERS

The Type T Form D2 expulsion fuse holders for use with potential transformers are similar in design and construction to the Type T Form D3 fuse holders for power service. This device has been modified, however, so as to be particularly adapted to the small current capacities required.

These fuse holders have entirely superseded the link fuses in glass tubes formerly used with potential transformers, and as the small fuse with asbestos cover is the only part subject to renewal a considerable saving in maintenance is effected as compared with the obsolete type.

Single-pole fuse blocks are made up for mounting these fuse holders separately from the transformer. Two methods of support are employed. In one the contact clips are mounted on standard line insulators which are in turn supported on a wooden base. This arrangement may be used as it is, or the base may be removed and the fuse block mounted directly on $1\frac{1}{4}$ in. pipe framework by means of yokes which are furnished with the fuse block. In the other arrangement, porcelain bushing type insulators are used, mounted on substantial slate bases.

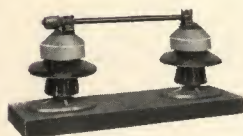
The Cat. No. of the fuse block does not include fuse holder or fuse.

All standard potential transformers which are arranged for mounting fuses directly on the cover, are now designed to use the Type T Form D2 fuse holder. These fuse holders can be used on the older design, which employed the glass covered link fuse, by replacing the present clips with new ones and substituting a fuse holder of a length corresponding to the distance between supports.

The operating hook used in removing these fuse holders from the contact clips, is provided with a clutch actuated from the handle, which firmly grips the fuse holder.

SINGLE-POLE—POTENTIAL TRANSFORMER EXPULSION FUSE BLOCKS—TYPE T—FORM D-2
WITHOUT HOLDER OR FUSE

For Separate Mounting—Used in connection with either oil or air type Potential Transformers.



Cat. No.	Volts	Mounting	Base	Distance Between Contact Clip Centers in Inches	List
59972	6600	Front connected on line insulators	Wood or $1\frac{1}{4}$ in. pipe	5	\$11.00
59973	15000	Front connected on one piece porcelain bushing type insulators	2 in. slate	$8\frac{1}{2}$	13.00
59974	15000	Back connected on one piece porcelain bushing type insulators	2 in. slate	$8\frac{1}{2}$	18.00
59975	15000	† Upper stud front connected, lower stud back connected, on one piece porcelain bushing type insulators	2 in. slate	$8\frac{1}{2}$	16.00
59976	15000	Front connected on line insulators	2 in. wood or $1\frac{1}{4}$ in. Pipe	$8\frac{1}{2}$	11.00
59977	35000	† Upper stud front connected, lower stud back connected on one piece porcelain bushing type insulators	2 in. slate	$11\frac{1}{2}$	32.00
59978	35000	Front connected on line insulators	2 in. wood or $1\frac{1}{4}$ in. pipe	$11\frac{1}{2}$	22.00
59979	60000	Front connected on line insulators	2 in. wood or $1\frac{1}{4}$ in. pipe	24	40.00

Two fuse blocks required with each transformer.

† By interchanging the supports, Cat. No. 59975 and No. 59977 fuse blocks can be arranged with upper studs back connected, lower studs front connected.

CUT-OUTS AND FUSES

FUSE HOLDERS WITH FUSES

For use with fuse blocks of corresponding voltage rating, or directly on potential transformers provided with suitable supports.

FUSE HOLDER		Volts	Potential Transformers with which Holders can be Used	Distance Between Contact Centers in Inches	List Price
Cat. No.	Includes Fuse Cat. No.				
46302	46303	6600	5500 } Volt Air Type	5	\$2.75
45268	45493	15000	6600 } Volt Oil Type assembled in CK 54 Box	8½	3.00
45269	45494	35000	4400 } Volts Oil Type assembled in CK 56 box	11½	3.25
45269	45494	35000	11000 } Volts Oil Type assembled in CK 58 box	11½	3.25
60519	60520	60000	13200 } Volt Oil Type	24	7.50
			15000 }		
			22000 }		
			26400 }		
			33000 }		
			60000 }		

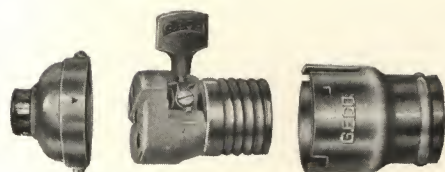
FUSES

CLIPS

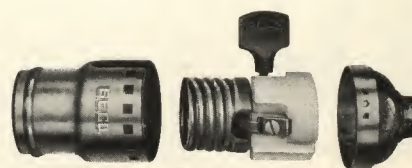
Cat. No.	Volts	Length in Inches	List Price	Cat. No.	Used on	List Price Each
46303	6600	9	\$0.40	60577	Front connected fuse block or on potential transformers	\$0.10
45493	15000	12½	.55	60578	Back connected fuse blocks . . . . .	.15
45494	35000	15½	.65			
60520	60000	30	1.85			
OPERATING HOOK						
				60521	Operating Hook for all D-2 Fuse Holders	\$15.00

SOCKETS AND RECEPTACLES

SOCKETS



Standard



Multicatch



Security Snap

The General Electric Company is prepared to furnish standard fixture and pendent sockets with any form of shell and cap connection desired.

The well-known General Electric standard interior is used either with the Cat. No. 9386 style of connection—four bayonet joints held firmly by set screws; the security snap connection—bayonet joints securely held by locking snap catch, or the new "Multicatch" connection—four right-angled catches on the cap that snap straight into the shell in any one of sixteen different positions.

The "Multicatch" is especially desirable for fixture work on account of the ease with which it can be adjusted when used in husks.



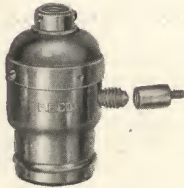
SOCKETS WITH EXTRA LONG KEYS

The key sockets listed in this catalogue are regularly furnished with keys ⅞" long, measured from outside of shell to end of key. Keys 1" long can be furnished on order without extra charge.

Extra long keys 1¼", 1½", 2" or 2½" can be furnished as ordered. Unless length desired is given on orders for sockets with extra long keys, lengths of 1½" will be furnished.

SOCKETS AND RECEPTACLES

SOCKETS



SOCKETS WITH EXTENSION KEYS

Standard key sockets can be furnished with special studs, for removable extension keys which are furnished by fixture manufacturers to match fixtures. The metal stud is thoroughly insulated from the key shaft by the insulated piece on which it is threaded.

The thread on the moulded insulation is $\frac{1}{8}$ -18, and the thread on the metal stud is 6-32, thus making the sockets adaptable to different forms of special keys.

SPECIAL FINISHES

Sockets and Receptacles listed in this catalogue are furnished with polished brass (Finish No. 1) shells, but can be supplied in any special finish desired.

- | | |
|-----------------------------|-------------------------------|
| 1 Polished Brass. | 12 Oxidized Copper. |
| 2 Old Brass—2½ Brush Brass. | 13 Antique or Acid Copper. |
| 3 Old English Bronze. | 14 Polished Bronze. |
| 4 Antique Brass. | 15 Polished Copper. |
| 5 Oxidized Brass. | 16 Polished Steel. |
| 6 Polished Gilt. | 17 Polished Nickel. |
| 7 English Bronze. | 18 Oxidized Silver. |
| 8 Satin Gold. | 19 Ground or Butler's Silver. |
| 9 Etruscan Gilt. | 20 Wrought Iron. |
| 10 Gold Bronze. | 21 Black Oxidized Copper. |
| 11 Mottled Copper. | |

In placing orders for finishes other than these, a sample should be furnished with the order.

MULTICATCH



Cat. No. 59952

Cat. No.	Description	Std. Pkg.	List Price
59952	Key Socket, for $\frac{1}{8}$ " pipe.....	500	\$0.33
59953	Key Socket, for $\frac{1}{8}$ " pipe.....	250	.39
59956	Key Socket, male thread on bushing, for $\frac{3}{8}$ " pipe.....	250	.39
59958	Key Socket, with moulded bushing, for pendent use.....	500	.33
59960	Key Socket, for $\frac{1}{8}$ " pipe, for 2½" shades.....	500	.39
59961	Key Socket, for $\frac{1}{8}$ " pipe, for 2½" shades.....	250	.45
59964	Key Socket, with moulded bushing for pendent use, for 2½" shades.....	500	.39
59966	Key Socket, for $\frac{1}{8}$ " pipe, for 3½" shades.....	100	.47
59967	Key Socket, for $\frac{1}{8}$ " pipe, for 3½" shades.....	100	.53
59970	Key Socket, with moulded bushing, for pendent use, for 3½" shades.....	100	.47



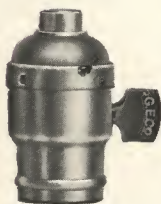
Cat. No. 59954

Cat. No.	Description	Std. Pkg.	List Price
59954	Keyless socket, for $\frac{1}{8}$ " pipe.....	500	\$0.30
59955	Keyless socket, for $\frac{1}{8}$ " pipe.....	250	.36
59957	Keyless socket, male thread on bushing, for $\frac{3}{8}$ " pipe.....	250	.36
59959	Keyless socket, with moulded bushing, for pendent use.....	500	.30
59962	Keyless socket, for $\frac{1}{8}$ " pipe, for 2½" shades.....	500	.36
59963	Keyless socket, for $\frac{1}{8}$ " pipe, for 2½" shades.....	250	.42
59965	Keyless socket, with moulded bushing for pendent use, for 2½" shades.....	500	.36
59968	Keyless socket, for $\frac{1}{8}$ " pipe, for 3½" shades.....	100	.44
59969	Keyless socket, for $\frac{1}{8}$ " pipe, for 3½" shades.....	100	.50
59971	Keyless socket, with moulded bushing for pendent use, for 3½" shades.....	100	.44
61183	Special wrench, for attaching.....		



Cat. No. 61183

SECURITY SNAP



Cat. No. 44147

Cat. No.	Description	Std. Pkg.	List Price
44147	Key socket, for $\frac{1}{8}$ " pipe.....	500	\$0.33
44148	Key socket, for $\frac{1}{8}$ " pipe.....	250	.39
44814	Key socket, male thread on bushing, for $\frac{3}{8}$ " pipe.....	250	.39
44151	Key socket, with moulded bushing, for pendent use.....	500	.33
44153	Key socket, for $\frac{1}{8}$ " pipe, for 2½" shades.....	500	.39
44154	Key socket, for $\frac{1}{8}$ " pipe, for 2½" shades.....	250	.45
44157	Key socket, with moulded bushing for pendent use, for 2½" shades.....	500	.39
44159	Key socket, for $\frac{1}{8}$ " pipe, for 3½" shades.....	100	.47
44160	Key socket, for $\frac{1}{8}$ " pipe, for 3½" shades.....	100	.53
44163	Key socket, with moulded bushing for pendent use, for 3½" shades.....	100	.47

SOCKETS AND RECEPTACLES

SOCKETS

SECURITY SNAP (Concluded)



Cat. No. 44149



Cat. No. 58951

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Cat. No. 59155



Cat. No. 58957



Cat. No. 27740



Cat. No. 9386



Cat. No. 43389



Cat. No. 9392



Cat. No. 43390



Cat. No. 27741



Cat. No. 50741

Cat. No.	Description	Std. Pkg.	List Price
44149	Keyless socket, for $\frac{1}{2}$ " pipe.....	500	
44150	Keyless socket, for $\frac{3}{4}$ " pipe.....	250	\$0.30
44151	Keyless socket, male thread on bushing, for $\frac{3}{4}$ " pipe.....	250	.36
44152	Keyless socket, with moulded bushing, for pendent use....	250	.36
44155	Keyless socket, for $\frac{1}{2}$ " pipe, for $2\frac{1}{2}$ " shades.....	500	.30
44156	Keyless socket, for $\frac{3}{4}$ " pipe, for $2\frac{1}{2}$ " shades.....	500	.36
44158	Keyless socket, with moulded bushing for pendent use, for $2\frac{1}{2}$ " shades.....	250	.42
44161	Keyless socket, for $\frac{1}{2}$ " pipe, for $3\frac{1}{2}$ " shades.....	500	.36
44162	Keyless socket, for $\frac{3}{4}$ " pipe, for $3\frac{1}{2}$ " shades.....	100	.44
44164	Keyless socket, with moulded bushing for pendent use, for $3\frac{1}{2}$ " shades.....	100	.50
		100	.44



Cat. No. 44152

LOCKING

Cat. No.	Description	Std. Pkg.	List Price
58951	Key socket, for $\frac{1}{2}$ " pipe.....		
62470	Key socket, for $\frac{3}{4}$ " pipe.....	100	\$0.40
62472	Key socket, male thread on bushing, for $\frac{3}{4}$ " pipe.....	100	.46
62474	Key socket, with moulded bushing, for pendent use.....	100	.46
62476	Key socket, for $\frac{1}{2}$ " pipe, for $2\frac{1}{2}$ " shades.....	100	.40
62477	Key socket, for $\frac{3}{4}$ " pipe, for $2\frac{1}{2}$ " shades.....	100	.46
62480	Key socket, with moulded bushing for pendent use, for $2\frac{1}{2}$ " shades.....	100	.52
62482	Key socket, for $\frac{1}{2}$ " pipe, for $3\frac{1}{2}$ " shades.....	100	.46
62483	Key socket, for $\frac{3}{4}$ " pipe, for $3\frac{1}{2}$ " shades.....	50	.54
62486	Key socket, with moulded bushing for pendent use, for $3\frac{1}{2}$ " shades.....	50	.60
		50	.54

58957	Keyless socket, for $\frac{1}{2}$ " pipe.....	100	\$0.37
62471	Keyless socket, for $\frac{3}{4}$ " pipe.....	100	.43
62473	Keyless socket, male thread on bushing, for $\frac{3}{4}$ " pipe.....	100	.43
62475	Keyless socket, with moulded bushing, for pendent use.....	100	.37
62478	Keyless socket, for $\frac{1}{2}$ " pipe, for $2\frac{1}{2}$ " shades.....	100	.43
62479	Keyless socket, for $\frac{3}{4}$ " pipe, for $2\frac{1}{2}$ " shades.....	100	.49
62481	Keyless socket, with moulded bushing for pendent use for $2\frac{1}{2}$ " shades.....	100	.43
62484	Keyless socket, for $\frac{1}{2}$ " pipe, for $3\frac{1}{2}$ " shades.....	50	.51
62485	Keyless socket, for $\frac{3}{4}$ " pipe, for $3\frac{1}{2}$ " shades.....	50	.57
62487	Keyless socket, with moulded bushing for pendent use, for $3\frac{1}{2}$ " shades.....	50	.51
59155	Key for locking device.....		.02

G.E. STANDARD

Cat. No.	Description	Std. Pkg.	List Price
9386	Key socket, for $\frac{1}{2}$ " pipe.....	500	\$0.33
50760	Key socket, for $\frac{3}{4}$ " pipe.....	250	.39
43389	Key socket, male thread on bushing, for $\frac{3}{4}$ " pipe.....	250	.39
50740	Key socket, with removable ring, for $\frac{1}{2}$ " pipe.....	500	.35
50762	Key socket, with removable ring, for $\frac{3}{4}$ " pipe.....	250	.41
27740	Key socket, for $\frac{1}{2}$ " pipe, for $2\frac{1}{2}$ " shades.....	500	.39
28719	Key socket, for $\frac{3}{4}$ " pipe, for $2\frac{1}{2}$ " shades.....	250	.45
29400	Key socket, for $\frac{1}{2}$ " pipe, for $3\frac{1}{2}$ " shades.....	100	.47
29401	Key socket, for $\frac{3}{4}$ " pipe, for $3\frac{1}{2}$ " shades.....	100	.53
9392	Keyless socket, for $\frac{1}{2}$ " pipe.....	500	.30
50768	Keyless socket, for $\frac{3}{4}$ " pipe.....	250	.36
43390	Keyless socket, male thread on bushing, for $\frac{3}{4}$ " pipe.....	250	.36
50741	Keyless socket, with removable ring for $\frac{1}{2}$ " pipe.....	500	.32
50771	Keyless socket, with removable ring, for $\frac{3}{4}$ " pipe.....	250	.38
28720	Keyless socket, for $\frac{1}{2}$ " pipe, for $2\frac{1}{2}$ " shades.....	500	.36
29402	Keyless socket, for $\frac{3}{4}$ " pipe, for $2\frac{1}{2}$ " shades.....	250	.42
29403	Keyless socket, for $\frac{1}{2}$ " pipe, for $3\frac{1}{2}$ " shades.....	100	.44
	Keyless socket, for $\frac{3}{4}$ " pipe, for $3\frac{1}{2}$ " shades.....	100	.50

SOCKETS AND RECEPTACLES

SOCKETS

SPECIAL



Cat. No. 29623



Cat. No. 50709



Cat. No. 50750



Cat. No. 59596



Cat. No. 66237



Cat. No. 35033

Cat. No.	Description	Std. Pkg.	List Price
35033	Pull socket, for $\frac{1}{2}$ " pipe, for fixture work.....	250	\$0.60
35000	Pull socket, for $\frac{1}{2}$ " pipe.....	250	.60
35001	Pull socket, for $\frac{3}{4}$ " pipe.....	100	.66
29623	Key socket, for electrolier, for $\frac{1}{2}$ " pipe.....	250	.55
29624	Key socket for electrolier, for $\frac{3}{4}$ " pipe.....	100	.61
50709	Key socket, 3-way, for $\frac{1}{2}$ " pipe.....	50	.80
50759	Key socket, 3-way, for $\frac{3}{4}$ " pipe.....	25	.86
50750	Keyless socket, with acorn shell, for $\frac{1}{2}$ " pipe.....	250	.38
50770	Keyless socket, with acorn shell, for $\frac{3}{4}$ " pipe.....	100	.44
59596	Keyless electrolier socket, for $\frac{1}{2}$ " pipe. (Security Snap)	250	.40
59597	Keyless electrolier socket, for $\frac{3}{4}$ " pipe. (Security Snap)	100	.46
66237	Keyless socket for electrolier, for $\frac{1}{2}$ " pipe.....	250	.40
50766	Keyless socket for electrolier, for $\frac{3}{4}$ " pipe.....	100	.46



Cat. No. 35000

PORCELAIN



Cat. No. 9395



Cat. No. 9393

Cat. No.	Description	Std. Pkg.	List Price
9395*	Key pendent socket.....	250	\$0.30
9393*	Keyless pendent socket.....	250	.25
50799*	Key socket with metal top, for $\frac{1}{2}$ " pipe.....	100	.35
34947*	Key socket with metal top, for $\frac{3}{4}$ " pipe.....	100	.35
50896*	Keyless socket with metal top, for $\frac{1}{2}$ " pipe.....	100	.30
34948*	Keyless socket with metal top, for $\frac{3}{4}$ " pipe.....	100	.30

*Will take shadeholder Cat. No. 71737. Also any weather-proof clamp shadeholder.



Cat. No. 50799



Cat. No. 50896

KEYLESS, FOR 500 VOLT CIRCUITS



Cat. No. 50702

Cat. No.	Description	Std. Pkg.	List Price
Shell and Cap—Threaded Connection			
50701	With aluminum shell, for $\frac{1}{2}$ " pipe.....	50	\$0.70
25709	With aluminum shell, for $\frac{3}{4}$ " pipe.....	50	.70
50702	With brass shell, for $\frac{1}{2}$ " pipe.....	50	.70
25710	With brass shell, for $\frac{3}{4}$ " pipe.....	50	.70
Shell and Cap—Bayonet Connection			
32440	With aluminum shell, for $\frac{1}{2}$ " pipe.....	50	.50
32441	With aluminum shell, for $\frac{3}{4}$ " pipe.....	50	.50
32442	With brass shell, for $\frac{1}{2}$ " pipe.....	50	.50
32443	With brass shell, for $\frac{3}{4}$ " pipe.....	50	.50
59323	With aluminum shell, male thread, $\frac{1}{2}$ " pipe.....	50	.50
59324	With brass shell, male thread, $\frac{1}{2}$ " pipe.....	50	.50



Cat. No. 59323

Regularly furnished with phosphor bronze spring center contacts. Can be furnished with flat washer contact on special order.

SOCKETS AND RECEPTACLES

RECEPTACLES BRASS SHELL



Cat. No. 50747



Cat. No. 9184



Cat. No. 50748



Cat. No. 60018

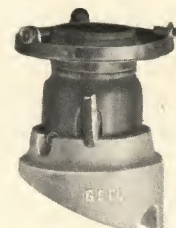
Cat. No.	Description	Std. Pkg.	List Price
9184	Key receptacle, porcelain base.....	250	\$0.44
60018	Key receptacle, concealed base.....	250	.44
50747	Key receptacle, with removable ring and porcelain base.....	250	.44
50748	Key receptacle, with removable ring and concealed base.....	250	.44
27742	Key receptacle, with 2 1/2" shadeholder.....	250	.50
29404	Key receptacle, with 3 1/4" shadeholder.....	100	.58
65964	Key receptacle, concealed base, 2 1/2" shades.....	250	.50



Cat. No. 50753



Cat. No. 50783



Cat. No. 28721



Cat. No. 35032

Cat. No.	Description	Std. Pkg.	List Price
47565	Keyless receptacle, for moulding work, show window lighting.....	250	\$0.35
49136	Keyless angle receptacle, for vertical moulding.....	250	.35
49137	Keyless angle receptacle, for horizontal moulding.....	250	.35
50753	Key receptacle, angle base.....	100	.55
28721	Key receptacle, angle base, with 2 1/2" shadeholder.....	100	.61
29406	Key receptacle, angle base, with 3 1/4" shadeholder.....	100	.69
50783	Key receptacle, with double pole fuse.....	250	.60
35006	Pull, porcelain base.....	100	.70
35028	Pull, with concealed base.....	100	.75
35021	Pull, angle base.....	50	.70
35032	Pull, ceiling receptacle.....	50	1.00



Cat. No. 9185



Cat. No. 60019



Cat. No. 60020



Cat. No. 49355



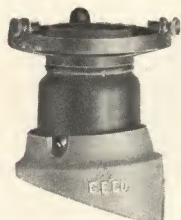
Cat. No. 50746

Cat. No.	Description	Std. Pkg.	List Price
9185	Keyless receptacle, porcelain base.....	250	\$0.40
50717	Keyless receptacle, closed base.....	250	.25
49355	Keyless receptacle, slotted base.....	250	.25
60019	Keyless receptacle, concealed base.....	250	.40
60020	Keyless receptacle, large concealed base.....	100	.45
65965	Keyless receptacle, with concealed base, 2 1/2" shades.....	250	.46
65966	Keyless receptacle, with large concealed base, 3 1/4" shades.....	100	.59
50745	Keyless receptacle, with removable ring and porcelain base.....	250	.30
50746	Keyless receptacle, with removable ring and concealed base.....	250	.40
50785	Keyless receptacle, with removable ring and large concealed base.....	100	.45
27743	Keyless receptacle, with 2 1/2" shadeholder.....	250	.46
29405	Keyless receptacle, with 3 1/4" shadeholder.....	100	.54

SOCKETS AND RECEPTACLES

RECEPTACLES

BRASS SHELL (Concluded)



Cat. No. 28722



Cat. No. 50784



Cat. No. 50723



Cat. No. 24998



Cat. No. 50755

Cat. No.	Description	Std. Pkg.	List Price
50755	Keyless receptacle, angle base.....	100	\$0.50
28722	Keyless receptacle, angle base, with 2 1/2" shadeholder.....	100	.56
29407	Keyless receptacle, angle base, with 3 1/2" shadeholder.....	100	.64
50784	Keyless receptacle, with double pole fuse.....	250	.55
35780	Keyless receptacle, with removable ring, 2" brown base.....	250	.30
50786	Keyless receptacle, with removable ring, 2 1/2" brown base.....	250	.30
50723	Keyless receptacle, with removable ring, for concealed work.....	100	.30
29176	Keyless receptacle, with removable ring, for concealed work, brown base.....	100	.30
50797	Keyless receptacle, with removable ring and nickel plated shell, for switchboards.....	100	.35
50798	Keyless receptacle, with removable ring and black oxidized shell, for switchboards.....	100	.30
24998	Keyless receptacle, with studs for back connections, for switchboards.....	100	.30

PORCELAIN RECEPTACLES FOR CLEAT WORK

Cat. Nos. 9171
and 50757

Cat. No. 59275



Cat. No. 40449



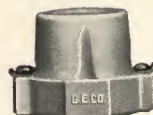
Cat. No. 28794



Cat. No. 61039



Cat. No. 44301



Cat. No. 50715

Cat. No.	Description	Std. Pkg.	List Price
-9171	Keyless receptacle, center screw hole in base.....	500	\$0.10
50757	Keyless, similar to No. 9171, copper fittings.....	250	.20
50715	Keyless, similar to No. 9171, holes for supporting screws outside.....	500	.15
11221	Keyless, similar to No. 50715, spring center contact.....	500	.20
28795	Keyless, similar to No. 11221, solid base.....	250	.15
59275	Keyless, for supporting wires 1 inch from surface.....	500	.18
28794	Keyless receptacle, protected base, standard rosette spring catches.....	250	.20
40449	Porcelain for outside wiring, two parts fastened together by standard rosette spring catches.....	250	.25
44301	Suspension hook, with two screws, for Cat. No. 40449.....	250	.05
61039	Keyless, with protected contacts.....	250	.25

Cat. No.	Description	Std. Pkg.	List Price
50716	Keyless, for temporary work.....	500	\$0.18
23210	Keyless receptacle.....	250	.25
23209	Keyless, similar to No. 23210, will take shadeholder.....	250	.30
9394	Keyless, with removable ring, without shadeholder.....	250	.20
9402	Keyless, base 2 3/8" diam.....	500	.15
9403	Keyless, adapted for shadeholder.....	250	.25

FUSED RECEPTACLES

50752	Keyless, for cleat or concealed work, double-pole fuse, 3 amp.....	100	\$0.45
9401	Keyless, with single-pole fuse.....	100	.40
9447	Keyless, with double-pole fuse, will take shadeholder.....	100	.45

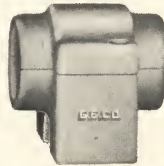
SOCKETS AND RECEPTACLES

RECEPTACLES

PORCELAIN RECEPTACLES FOR CONCEALED WORK



Cat. No. 50744



Cat. No. 42454



Cat. No. 9514

Cat. No.	Description	Std. Pkg.	List Price
9514	Keyless receptacle, flush pocket	250	\$0.30
50744	Keyless receptacle, with porcelain shell and removable ring, will take shadeholder	100	.30
50727	Keyless, for multiple circuits	250	.30
33581	Keyless, for show window lighting	250	.30
33582	Keyless, similar to No. 33581, with angle base	250	.35
32959	Keyless, for border lighting	250	.35
34353	Keyless, for show-window lighting, with angle base, for horizontal moulding	250	.35
42454	Keyless, multiple receptacle for two 16 C.P. lamps	100	.40

PORCELAIN RECEPTACLES FOR MOULDING WORK



Cat. No. 58303

Cat. No.	Description	Std. Pkg.	List Price
34152	Keyless, with concealed contacts, will take shadeholder ..	250	\$0.30
58303	Keyless, similar to No. 34152, will not take shadeholder ..	250	.25
50724	Keyless receptacle	250	.25
50726	Keyless, will take shadeholder	250	.30
36519	Keyless, for three-wire moulding, will take shadeholder ..	250	.35



Cat. No. 34152

CONDUIT BOX RECEPTACLES



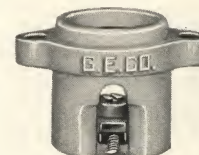
Cat. No. 62357



Cat. No. 9397



Cat. No. 49354



Cat. No. 60931

Cat. No.	Description	Std. Pkg.	List Price
9397	Keyless, interior conduit	250	\$0.20
40537	Keyless, interior conduit, base 2" diameter	250	.18
40507	Keyless, interior conduit, base 1 1/2" diameter	250	.17
49354	Keyless conduit box, for attaching to bottom of box	250	.20
43501	Keyless conduit box, large flange to form cover, 3 holes for supporting screws	250	.35
62357	Keyless conduit box, large flange to form cover, 2 holes for supporting screws to fit any standard 3 1/2" box	250	.35
60931	Keyless conduit box, for attaching to cover of box	250	.17

PORCELAIN SIGN RECEPTACLES



Cat. No. 46627

Cat. No.	Description	Std. Pkg.	List Price
46627	For metal front signs	250	\$0.20
50782	Keyless, for sign work, skirt 1 1/2" long	100	.25
50899	Keyless, for sign work, skirt 1" long	100	.25
30599	Keyless, for sign work, skirt 1 1/2" long	500	.20
1700	Keyless, for sign work, skirt 1" long	500	.14



Cat. No. 30599

SOCKETS AND RECEPTACLES

RECEPTACLES

PORCELAIN RECEPTACLES WITH K-W BASES

Cat. No.	Description	Std. Pkg.	List Price
9404	Keyless receptacle, for concealed work.....	50	\$0.40
9434	Keyless receptacle, for cleat work.....	50	.40
9435	Keyless receptacle, for 2-wire moulding work.....	50	.40
45364	Keyless receptacle, for 3-wire moulding work.....	50	.40
29173	Keyless receptacle, combination base.....	50	.40
9405	Keyless receptacle, for shadeholder, concealed work.....	50	.50
9436	Keyless receptacle, for shadeholder, cleat work.....	50	.50
9437	Keyless receptacle, for shadeholder, 2-wire moulding work.....	50	.50
45365	Keyless receptacle, for shadeholder, 3-wire moulding work.....	50	.50
29174	Keyless receptacle, for shadeholder, combination base.....	50	.50
9406	Keyless angle receptacle, for shadeholder, concealed work.....	50	.80
9438	Keyless angle receptacle, for shadeholder, cleat work.....	50	.80
9439	Keyless angle receptacle, for shadeholder, 2-wire moulding work.....	50	.80
45366	Keyless angle receptacle, for shadeholder, 3-wire moulding work.....	50	.80
29175	Keyless angle receptacle, for shadeholder, combination base.....	50	.80

PORCELAIN RECEPTACLES—SPECIAL COMBINATION STYLE

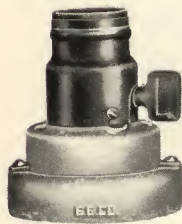
Cat. No.	Description	Std. Pkg.	List Price
38135	Keyless, K-W. base, for concealed work.....	50	\$0.50
38136	Keyless, K-W. base, for cleat work.....	50	.50
38137	Keyless, K-W. base, for moulding work.....	50	.50
38138	Keyless, K-W. combination base.....	50	.50
38394	Keyless, P-K. base, for concealed work.....	50	.50
38395	Keyless, P-K. base, for cleat work.....	50	.50
38396	Keyless, P-K. base, for moulding work.....	50	.50
25094	Keyless, Thomas base, for concealed work.....	50	.40
25092	Keyless, Thomas base, for cleat work.....	50	.40
25096	Keyless, Thomas base, for moulding work.....	50	.40
25093	Keyless, Thomas base, concealed, for shadeholder.....	50	.50
25091	Keyless, Thomas base, cleat, for shadeholder.....	50	.50
25095	Keyless, Thomas base, moulding, for shadeholder.....	50	.50



Cat. No. 38394

KEY RECEPTACLES WITH K-W ROSETTE BASES

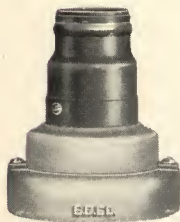
50729	Key receptacle, for concealed work.....	100	\$0.60
50730	Key receptacle, for cleat work.....	100	.60
50731	Key receptacle, for moulding work.....	100	.60
45361	Key receptacle, for 3-wire moulding work.....	100	.60
28727	Key receptacle, combination base.....	100	.60
38398	Key receptacle, for concealed work, with removable ring.....	100	.60
38399	Key receptacle, for cleat work, with removable ring.....	100	.60
38600	Key receptacle, for moulding work, with removable ring.....	100	.60
46222	Key receptacle, for 3-wire moulding work, with removable ring.....	100	.60
38601	Key receptacle, combination base, with removable ring.....	100	.66
28723	Key receptacle, for concealed work, with 2 1/2" shadeholder.....	100	.66
28724	Key receptacle, for cleat work, with 2 1/2" shadeholder.....	100	.66
28725	Key receptacle, for moulding work, with 2 1/2" shadeholder.....	100	.66
28726	Key receptacle, combination base, with 2 1/2" shadeholder.....	100	.66
29408	Key receptacle, for concealed work, with 3 1/4" shadeholder.....	100	.74
29409	Key receptacle, for cleat work, with 3 1/4" shadeholder.....	100	.74
29410	Key receptacle, for moulding work, with 3 1/4" shadeholder.....	100	.74
29482	Key receptacle, combination base, with 3 1/4" shadeholder.....	100	.74



Cat. No. 50729

KEYLESS RECEPTACLES WITH K-W ROSETTE BASES

50732	Keyless receptacle, for concealed work.....	50	\$0.55
50733	Keyless receptacle, for cleat work.....	50	.55
50734	Keyless receptacle, for moulding work.....	50	.55
45362	Keyless receptacle, for 3-wire moulding work.....	50	.55
28732	Keyless receptacle, combination base.....	50	.55
38602	Keyless receptacle, for concealed work, with removable ring.....	50	.55
38603	Keyless receptacle, for cleat work, with removable ring.....	50	.55
38604	Keyless receptacle, for moulding work, with removable ring.....	50	.55
46223	Keyless receptacle, for 3-wire moulding work, with removable ring.....	50	.55
38605	Keyless receptacle, combination base, with removable ring.....	50	.55
28728	Keyless receptacle, for concealed work, with 2 1/2" shadeholder.....	50	.61
28729	Keyless receptacle, for cleat work, with 2 1/2" shadeholder.....	50	.61
28730	Keyless receptacle, for moulding work, with 2 1/2" shadeholder.....	50	.61
28731	Keyless receptacle, combination base, with 2 1/2" shadeholder.....	50	.61
29411	Keyless receptacle, for concealed work, with 3 1/4" shadeholder.....	50	.69
29412	Keyless receptacle, for cleat work, with 3 1/4" shadeholder.....	50	.69
29413	Keyless receptacle, for moulding work, with 3 1/4" shadeholder.....	50	.69
29483	Keyless receptacle, combination base, with 3 1/4" shadeholder.....	50	.69



Cat. No. 50732

SOCKETS AND RECEPTACLES

RECEPTACLES

KEY RECEPTACLES WITH P-K ROSETTE BASES



Cat. No. 38606

Cat. No.	Description	Std. Pkg.	List Price
34193	Key receptacle, for concealed work.....	100	\$0.60
34194	Key receptacle, for cleat work.....	100	.60
34195	Key receptacle, for moulding work.....	100	.60
38606	Key receptacle, for concealed work, with removable ring.....	100	.60
38607	Key receptacle, for cleat work, with removable ring.....	100	.60
38608	Key receptacle, for moulding work, with removable ring.....	100	.60
38672	Key receptacle, for concealed work, with 2 1/2" shadeholder.....	100	.66
38673	Key receptacle, for cleat work, with 2 1/2" shadeholder.....	100	.66
38674	Key receptacle, for moulding work, with 2 1/2" shadeholder.....	100	.66
38680	Key receptacle, for concealed work, with 3 1/4" shadeholder.....	100	.74
38681	Key receptacle, for cleat work, with 3 1/4" shadeholder.....	100	.74
38682	Key receptacle, for moulding work, with 3 1/4" shadeholder.....	100	.74

KEYLESS RECEPTACLES WITH P-K ROSETTE BASES

Cat. No.	Description	Std. Pkg.	List Price
34196	Keyless receptacle, for concealed work.....	50	\$0.55
34197	Keyless receptacle, for cleat work.....	50	.55
34198	Keyless receptacle, for moulding work.....	50	.55
38610	Keyless receptacle, for concealed work, with removable ring.....	50	.55
38611	Keyless receptacle, for cleat work, with removable ring.....	50	.55
38612	Keyless receptacle, for moulding work, with removable ring.....	50	.55
38676	Keyless receptacle, for concealed work, with 2 1/2" shadeholder.....	50	.61
38677	Keyless receptacle, for cleat work, with 2 1/2" shadeholder.....	50	.61
38678	Keyless receptacle, for moulding work, with 2 1/2" shadeholder.....	50	.61
38684	Keyless receptacle, for concealed work, with 3 1/4" shadeholder.....	50	.69
38685	Keyless receptacle, for cleat work, with 3 1/4" shadeholder.....	50	.69
38686	Keyless receptacle, for moulding work, with 3 1/4" shadeholder.....	50	.69

KEY RECEPTACLES WITH THOMAS ROSETTE BASES



Cat. No. 24990

Cat. No.	Description	Std. Pkg.	List Price
24990	Key receptacle, for concealed work.....	100	\$0.60
24991	Key receptacle, for cleat work.....	100	.60
24992	Key receptacle, for moulding work.....	100	.60
46262	Key receptacle, for concealed work, with removable ring.....	100	.60
46263	Key receptacle, for cleat work, with removable ring.....	100	.60
46264	Key receptacle, for moulding work, with removable ring.....	100	.60
28733	Key receptacle, for concealed work, with 2 1/2" shadeholder.....	100	.66
28734	Key receptacle, for cleat work, with 2 1/2" shadeholder.....	100	.66
28735	Key receptacle, for moulding work, with 2 1/2" shadeholder.....	100	.66
29414	Key receptacle, for concealed work, with 3 1/4" shadeholder.....	100	.74
29415	Key receptacle, for cleat work, with 3 1/4" shadeholder.....	100	.74
29416	Key receptacle, for moulding work, with 3 1/4" shadeholder.....	100	.74

KEYLESS RECEPTACLES WITH THOMAS ROSETTE BASES

Cat. No.	Description	Std. Pkg.	List Price
24993	Keyless receptacle, for concealed work.....	50	\$0.55
24994	Keyless receptacle, for cleat work.....	50	.55
24995	Keyless receptacle, for moulding work.....	50	.55
46265	Keyless receptacle, for concealed work, with removable ring.....	50	.55
46266	Keyless receptacle, for cleat work, with removable ring.....	50	.55
46267	Keyless receptacle, for moulding work, with removable ring.....	50	.55
28736	Keyless receptacle, for concealed work, with 2 1/2" shadeholder.....	50	.61
28737	Keyless receptacle, for cleat work, with 2 1/2" shadeholder.....	50	.61
28738	Keyless receptacle, for moulding work, with 2 1/2" shadeholder.....	50	.61
29417	Keyless receptacle, for concealed work, with 3 1/4" shadeholder.....	50	.69
29418	Keyless receptacle, for cleat work, with 3 1/4" shadeholder.....	50	.69
29419	Keyless receptacle, for moulding work, with 3 1/4" shadeholder.....	50	.69

WEATHERPROOF SOCKETS



Cat. No. 9366



Cat. No. 37695

Cat. No.	Description	Std. Pkg.	List Price
9366	Porcelain.....	250	\$0.25
38687	Special porcelain.....	250	.30
37695	Porcelain, for decorative wiring.....	250	.25
60666	Moulded material.....	250	.60
50788	Hard rubber.....	250	1.00
42686	Moulded material, spring center contact.....	250	.65
42690	Hard rubber, spring center contact.....	250	1.05



Cat. No. 60666



Cat. No. 9448

SOCKETS AND RECEPTACLES

SOCKETS

WEATHERPROOF SOCKETS (Concluded)



Cat. No. 50997

Cat. No.	Description	Std. Pkg.	List Price
50997	Porcelain, with extended top and lead wires.....	250	\$0.50
22754	Porcelain, with D.G. petticoat....	200	.35
9448	Bracket socket, for 1" pipe.....	100	.60
9496	Bracket socket, for 1 1/2" pipe.....	100	.60
22755	Bracket socket, for 2" pipe, with D.G. petticoat.....	100	.60
22756	Bracket socket, for 2 1/2" pipe, with D.G. petticoat.....	100	.60

The standard length of wire on these sockets is 6 inches. Extra wire 1 1/2 cents per foot, net, each conductor.



Cat. No. 22754



Cat. No. 22755

WEATHERPROOF SOCKETS—MOULDED MICA



Cat. No. 43310



Cat. No. 43311

Cat. No.	Description	Std. Pkg.	List Price
43310	Edison moulded mica pendent socket, for shadeholder.....	250	\$0.36
43311	Edison moulded mica bracket socket for shadeholder, for 1/2" pipe, for wires inside pipe.....	100	.60
43312	Edison moulded mica bracket socket for shadeholder, for 3/4" pipe, for wires inside pipe.....	100	.60
43313	Edison moulded mica bracket socket for shadeholder, for 1" pipe, for wires outside pipe.....	100	.60
43314	Edison moulded mica bracket socket for shadeholder, for 1 1/2" pipe, for wires outside pipe.....	100	.60

The standard length of wire on these sockets is 6 inches. Extra wire 1 1/2 cents per foot, net, each conductor.



Cat. No. 43313

WEATHERPROOF RECEPTACLES

Cat. No.	Description	Std. Pkg.	List Price
9407	Porcelain, with leads parallel to base.....	100	\$0.40
9408	Porcelain, with leads perpendicular to base.....	100	.40
9411	Porcelain, with leads perpendicular to base and lugs for base screws.....	100	.35
44912	Porcelain, with leads parallel to base.....	100	.35
30000	Porcelain, angle base, parallel leads.....	100	.45
25706	Porcelain, with iron yoke and outside connections.....	100	.27
25707	Porcelain, with iron yoke and leads perpendicular to base.....	100	.24

MARINE SOCKETS AND RECEPTACLES



Cat. No. 22287



Cat. No. 50966



Cat. No. 36697



Cat. No. 22654

Cat. No.	Description	List Price
50966	Key socket, black shell.....	\$0.50
50965	Keyless socket, black shell.....	.45
9449	N.W.T. key receptacle, black shell, with double-pole fuse.....	.60
22654	N.W.T. keyless receptacle, black shell, with double-pole fuse.....	.55
22287	N.W.T. keyless receptacle, porcelain base.....	.35
36697	N.W.T. attaching plug, metal cover, black finish.....	.27
50775	N.W.T. keyless receptacle, with removable ring, porcelain-base, black shell.....	.35

These sockets are furnished with phosphor bronze spiral screw shells, which prevent loosening due to the vibration of the ship.

SOCKETS AND RECEPTACLES

SOCKETS AND RECEPTACLES FOR MINIATURE LAMPS



No. 1
Receptacle
Cat. No. 9444



No. 2
Receptacle
Cat. No. 9446



No. 3
Socket
Cat. No. 50776



No. 4
Receptacle
Cat. No. 9445



No. 5
Socket
Cat. No. 50777



No. 6
Receptacle
Cat. No. 50778



No. 7
Receptacle
Cat. No. 50790



Cat. No. 60103

No. 1 Receptacle is known as the Standard Round Candelabra Receptacle, and will receive lamps with candelabra base. It is made of porcelain and is especially designed for use on fixtures fitted with glass candles. The receptacle screws into a central supporting tube, and the candles, when in place, completely cover both supporting tube and receptacle. The screw at the lower end is supplied either male or female as desired.

No. 2 is the Standard Flat Base Candelabra Receptacle. It is made of porcelain and will receive lamps having candelabra bases.

No. 3 is the Candelabra Socket. It is made of brass, with porcelain insulating parts, and will receive lamps having candelabra bases.

No. 4 is the Standard Round Miniature Lamp Receptacle. It is made of porcelain and will receive the lamps fitted with miniature screw bases.

No. 5 is the Standard Socket for use with Miniature Lamps. It is made of brass with porcelain insulating parts, and will receive lamps fitted with miniature screw bases.

No. 6 is a Special Receptacle for Sign Work, designed for strength and compactness and is very extensively used for sign work of all kinds. It is made of porcelain and will receive lamps having candelabra bases.

No. 7 is a Receptacle designed particularly for marine use. It is similar to the No. 6 Receptacle but has a spring shell, and will take lamps having candelabra bases.



Cat. No. 35699



No. 7 Receptacle
Cat. No. 50779

Cat. No.	Description	Std. Pkg.	List Price per 100
9444	No. 1 candelabra receptacle with male thread.....	200	\$12.00
69444	No. 1 candelabra receptacle with female thread.....	200	12.00
9446	No. 2 candelabra receptacle.....	200	6.00
50776	No. 3 candelabra socket.....	200	23.50
9445	No. 4 miniature receptacle.....	200	6.00
50777	No. 5 miniature socket.....	200	23.25
50778	No. 6 candelabra receptacle.....	200	10.00
50790	No. 7 candelabra marine receptacle.....	200	15.00
50779	No. 7 candelabra double-pole fused receptacle.....	200	22.00
30857	No. 8 miniature pendent receptacle.....	200	12.00
30856	No. 9 candelabra pendent receptacle.....	200	13.50
60103	Candelabra base sign receptacle, for metal front signs....	200	15.00
35699	Adapter for candelabra base lamps to Edison base sockets	100	10.00



No. 8 Receptacle
Cat. No. 30857



No. 9 Receptacle
Cat. No. 30856

No. 7 is a Double-pole Fused Receptacle designed to meet requirements demanding the use of fuses in connection with the receptacle. This receptacle is made of porcelain, and has a removable cover concealing both connections and fuses. It will receive lamps having candelabra bases.

No. 8 is a Pendent Receptacle. It is made of porcelain and is furnished with 6" of cord. It will receive lamps having miniature screw bases.

No. 9 is a Pendent Receptacle. It is made of porcelain and is furnished with 6" of cord. It will receive lamps having candelabra bases.

SOCKETS FOR SERIES INCANDESCENT SYSTEM

Cat. No.	Description	List Price
25708	Porcelain series socket and receptacle, complete, including iron yoke, No. 25714, for use with large Edison screw base lamps, used with brackets, Cat. Nos. 11289, 11459.....	\$2.00
25717	Porcelain series socket and receptacle, complete, including iron yoke, No. 19043, for use with large Edison screw base lamps, old style bracket, Cat. No. 9089....	2.00
29170	Porcelain series socket and receptacle, complete, with iron yoke, Cat. No. 29172, for standard Edison screw base lamps, used with brackets, Cat. Nos. 29185, 29186.....	1.50
25711	Porcelain series socket only, for Nos. 25708, 25717.....	1.00
25720	Porcelain series socket only, for No. 29170.....	.50
25712	Porcelain receptacle with clips and iron yoke, No. 25714.....	1.00
25718	Porcelain receptacle, with clips and iron yoke, No. 19043.....	1.00
29171	Porcelain receptacle, with clips and iron yoke, No. 29172.....	1.00
25713	Porcelain receptacle, with clips only.....	.65
25714	Iron yoke, with two screws, No. 10252 (1/8"-18 thread).....	.35
29172	Iron yoke, with two screws, No. 10252 (1/8"-18 thread).....	.35
19043	Iron yoke, with two screws, No. 10252 (1/8"-18 pipe thread).....	.35



Cat. No. 25708



Cat. No. 25712



Cat. No. 25711

SOCKETS AND RECEPTACLES

SERIES SOCKETS



Cat. No. 4504

BRASS SHELL SERIES LAMP SOCKETS FOR LAMPS WITH T-H BASES

Cat. No.	Description	List Price
4504	Series socket for arc circuits up to 9.6 amps.	\$2.00
4505	Series socket for circuits of 7.5 amps. or less.	1.50



Cat. No. 4505

ATTACHING PLUGS



Cat. No. 50751



Cat. No. 42456

Cat. Nos.
3089 and 50996

Cat. No. 28840



Cat. No. 34153

Cat. No.	Description	Std. Pkg.	List Price
3089	Porcelain Edison base, with single-pole fuse.	250	\$0.22
50996	Porcelain, Edison base, fuseless.	250	.22
34153	With metal cover, Edison base, double bushing for reinforced cord or lamp cord, fuseless.	250	.22
28840	Swivel, Edison base, fuseless.	250	.30
50751	Porcelain combined socket and attaching plug, Edison base.	100	.50
35351	Combined socket and attaching plug, with metal shell, Edison base.	100	.60



Cat. No. 35351

SEPARABLE ATTACHING PLUGS AND RECEPTACLES



Cat. No. 58953



Cat. No. 49488



Cat. No. 49489



Cat. Nos. 49487 and 58730



Cat. No. 59071



Cat. No. 59805

Cat. No.	Description	Std. Pkg.	List Price
42456	Attaching plug, Edison base, fuseless with separable cover (porcelain).	250	\$0.25
58729	Attaching plug, Edison base, fuseless, with separable cover (moulded material).	100	.50
49488	Cleat receptacle, porcelain to take plug Cat. No. 49487 (porcelain) or Cat. No. 58730 (moulded material).	100	.20
49489	Concealed receptacle, porcelain to take plug Cat. No. 49487 (porcelain) or Cat. No. 58730 (moulded material).	100	.20
49490	Flush receptacle, to take plug Cat. No. 49487 (porcelain) or Cat. No. 58730 (moulded material).	50	.40
49491	Flush plate 4 1/2 in. x 2 1/2 in. for Cat. No. 49490.	50	.60
49487	Porcelain plug, two finger contacts, to fit above receptacles and attaching plug Cat. No. 42456.	100	.10
58730	Moulded material plug, two finger contacts, to fit above receptacles and attaching plug Cat. No. 42456.	100	.15
58953	Combined socket and attaching plug, two finger contacts to fit above receptacles and Cat. No. 42456 attaching plug.	100	.25
59805	Combined socket and separable attaching plug, porcelain, Edison base, fuseless.	100	.50
59071	Stage connector.	100	.50

Cat. No.
58729

SOCKETS AND RECEPTACLES

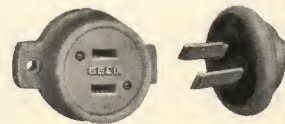
25 AMPERE RECEPTACLES AND PLUGS



Cat. No. 45490



Cat. No. 59325



Cat. No. 45395

Cat. No.	Description	Std. Pkg.	List Price
45395	D. P. 25 ampere receptacle with plug, porcelain.....	25	\$0.60
59197	D. P. 25 ampere plug only, porcelain.....	25	.25
59198	D. P. 25 ampere receptacle only, porcelain.....	25	.35
59199	D. P. 25 ampere receptacle with plug, moulded material.....	25	.90
59200	D. P. 25 ampere plug only, moulded material.....	25	.35
59201	D. P. 25 ampere receptacle only, moulded material.....	25	.55
45490	T. P. 25 ampere receptacle with plug, porcelain.....	25	.90
59192	T. P. 25 ampere plug only, porcelain.....	25	.35
59193	T. P. 25 ampere receptacle only, porcelain.....	25	.55
59194	T. P. 25 ampere receptacle with plug, moulded material.....	25	1.35
59195	T. P. 25 ampere plug only, moulded material.....	25	.50
59196	T. P. 25 ampere receptacle only, moulded material.....	25	.85
59325	Porcelain sub-base for use with above D.P. and T.P. receptacles, for cleat and moulding work....	25	.10

PORCELAIN ELECTROLIER CUT-OUTS



Cat. No. 42412



Cat. No. 61119



Cat. No. 8300



Cat. No. 8305

These cut-outs are adapted by their size and shape for use in interior conduits and in the canopies of electroliers, chandeliers and wall brackets.

Cat. No.	Description	Std. Pkg.	List Price
8300	Single-pole straight bug cut-out, 5 amp., 125 volt.....	100	\$0.10
42412	Single-pole straight bug cut-out, for glass tube fuse, 2 amp., 250 volt.....	100	.10
8305	Single-pole curved bug cut-out, 5 amp., 125 volt.....	100	.10
61119	Single-pole electrolier cut-out, for six lights, 125 volt.....	100	.10
9478	Bug cut-out, 125 volt.....	250	.18

CEILING ROSETTES

Geco Rosettes are so designed as to maintain all the attractive features of the standard line, and yet add much to them in the saving in size and weight. Every opportunity to save space has been taken and the smallest and most attractive line on the market is the result. Made double-pole, fused for 125 volts and fuseless for 250 volts. The caps are interchangeable on any form of base.

In the rosettes for concealed work the depth of the base should be noted; these are made especially deep and space is left in the back for the projecting ends of tubes and make wiring easy.



Cat. No. 39234



Cap for 250 Volts



Cat. No. 39236



Cap for 125 Volts



Cat. No. 39238

Cat. No.	Description	Std. Pkg.	List Price
39234	Geco, D.P., fused, for cleat work, 125 volts.....	500	\$0.15
39236	Geco, D.P., fused, for concealed work, 125 volts.....	500	.15
39238	Geco, D.P., fused, for moulding work, 125 volts.....	250	.15
39235	Geco, fuseless, for cleat work, 250 volts.....	500	.12
39237	Geco, fuseless, for concealed work, 250 volts.....	500	.12
39239	Geco, fuseless, for moulding work, 250 volts.....	250	.12

SOCKETS AND RECEPTACLES

CEILING ROSETTES



Cat. Nos. 60124, 40496



Cat. Nos. 60123, 32578



Cat. No. 43574



Cat. Nos. 60396, 40497

Cat. No.	Description	Std. Pkg.	List Price
60123	Double-pole, link fuses, for cleat work, 125 volts.....	250	\$0.26
60124	Double-pole, link fuses, for concealed work, 125 volts.....	250	.26
60396	Double-pole, link fuses, for moulding work, 125 volts.....	250	.26
43574	Double-pole, link fuses, for cleat work, 125 volts, cast terminal lugs.....	250	.26
65962	Porcelain rosette, for outlet boxes with link fuse cap.....	250	.26
32578	Double-pole, glass tube fuses, 250 volts, for cleat work.....	250	.30
40496	Double-pole, glass tube fuses, 250 volts, for concealed work.....	250	.30
40497	Double-pole, glass tube fuses, 250 volts, for moulding work.....	250	.30
43575	Double-pole, glass tube fuses, for cleat work, 250 volts, cast terminal lugs.....	250	.30
40414	Double-pole cap, 250 volts, can be used to make Nos. 60123, 60124 and 60396, suitable for 250 volt work.....	250	.20
32579	Two-ampere glass tube fuse, for the above 250-volt rosettes.....	100	.05
59809	Ceiling rosette, fuseless, for cleat work, 250 volts.....	250	.23
59807	Ceiling rosette, fuseless, for concealed work, 250 volts.....	250	.23
59808	Ceiling rosette, fuseless, for moulding work, 250 volts.....	250	.23
65963	Porcelain rosette, for outlet boxes, with fuseless cap.....	250	.23



Cat. No. 34356

Cat. No.	Description	Std. Pkg.	List Price
60474	One piece, fuseless, 125 volts, for cleat work (round).....	500	\$0.16
34356	Fuseless, for moulding work, 250 volts.....	250	.20
43111	One piece, fuseless, 250 volts, for cleat work (round).....	500	.11



Cat. No. 43111

WATERTIGHT FLOOR OUTLET BOXES

SELF-LEVELING—ADJUSTABLE



Cat. No. 75939

Cat. No.	Description	Std. Pkg.	List Price
75939	Box complete, with round floor plate and single outlet nozzle.....	25	\$4.40
75940	Box complete, with square floor plate and single outlet nozzle.....	25	4.90

The leveling adjustment of the floor plate permits of the setting of the box in concrete floors without accurate leveling (the maximum permissible elevation of one side of the box is $\frac{1}{8}$ inch).
Cat. No. 75940 may be furnished in two-gang and three-gang arrangements on special order.

ADJUSTABLE

Cat. No.	Description	Std. Pkg.	List Price
76459	Box complete, with round brass floor plate, with either single or double outlet nozzle.....	25	\$4.00
76460	Box complete, with square brass floor plate, with either single or double outlet nozzle.....	25	4.50
76461	Cat. No. 76459, complete with plug, Cat. No. 33442 and receptacle, Cat. No. 38298.....	25	5.30
76462	Cat. No. 76460, complete with plug, Cat. No. 33442 and receptacle, Cat. No. 38298.....	25	5.80

25 AMPERE—ADJUSTABLE

Cat. No.	Description	Std. Pkg.	List Price
75090	Box complete, round floor plate, single nozzle, including attaching plug and 25 amp. 125 volt double-pole porcelain wall receptacle, Cat. No. 45395.....	25	\$6.50
75092	Single nozzle, with bushing.....	25	1.75
75093	Sealing plug, for plate.....	25	.60

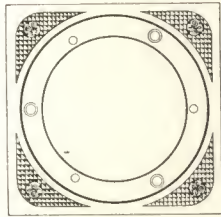


Cat. No. 76461

SOCKETS AND RECEPTACLES

WATER TIGHT FLOOR OUTLET BOXES (Concluded)

P-R TYPE



Cat. No. 75944

Cat. No.	Description	Std. Pkg.	List Price
76470	Box complete, with brass floor plate, with either single or double outlet nozzle, and including plug (Cat. No. 33442) and receptacle (Cat. No. 38298).....	25	\$4.20

ACCESSORIES—(FIT ALL BOXES EXCEPT CAT. No. 75090)

76465	Single outlet nozzle.....	25	\$1.40
76466	Double outlet nozzle.....	25	1.40
76467	Flush sealing plug (for floor plate).....	25	.40
76468	Sealing plug (for conduit hole in box).....	25	.10

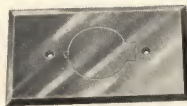
FLOOR RINGS

Cat. No.	Description	Std. Pkg.	List Price
75944	Square floor ring, for use with Cat. Nos. 75939, 75090, 76459, 76461.....	25	\$2.25
75945	Round floor ring, for use with Cat. Nos. 75939, 75090, 76459, 76461.....	25	1.50

FLUSH POCKET WALL RECEPTACLES



Cat. No. 36817



Cat. No. 36818

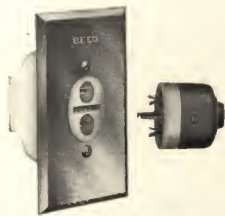


Cat. No. 49490



Cat. No. 49491

Cat No.	Description	Std. Pkg.	List Price
36817	Flush receptacle, for Edison base attaching plugs.....	25	\$0.40
36818	Nickel cover, for Cat. No. 36817.....	25	.60
49490	Flush receptacle, to take plug, Cat. No. 49487 or Cat. No. 58730.....	50	.40
49491	Flush plate, 4 1/4" x 2 1/4", for Cat. No. 49490.....	50	.60



Cat. No. 75923

DISAPPEARING DOOR FLUSH RECEPTACLES

75923	Receptacle, complete with plate, door and plug.....	25	\$2.40
75928	Receptacle, with plate and door.....	25	1.80
75929	Receptacle, only.....	25	.75
75930	Plug, complete.....	25	.60
75931	Single plate, complete with door.....	25	1.05

Our Disappearing Door Flush Receptacle is so designed that when the plug is removed a porcelain door comes flush with the wall plate and locks into place automatically. Thus the live parts are thoroughly protected from external contact.

DOUBLE DOOR FLUSH RECEPTACLES

Cat. No.	Description	Std. Pkg.	List Price
33441	Flush receptacle, complete with plate and plug.....	25	\$1.40
38297	Flush receptacle, with plate.....	25	1.15
38298	Flush receptacle, without plate.....	25	.50
33442	Plug only.....	25	.25
38299	Single plate, for Cat. No. 38298.....	25	.65
38360	Two-gang plate, for two receptacles, Cat. No. 38298.....		2.40
38361	Three-gang plate, for three receptacles, Cat. No. 38298.....		3.60
38362	Four-gang plate, for four receptacles, Cat. No. 38298.....		4.80
38363	Five-gang plate, for five receptacles, Cat. No. 38298.....		6.00
38364	Six-gang plate, for six receptacles, Cat. No. 38298.....		7.20
38365	Seven-gang plate, for seven receptacles, Cat. No. 38298.....		8.40
38366	Eight-gang plate, for eight receptacles, Cat. No. 38298.....		9.60



Cat. No. 33441

SOCKETS AND RECEPTACLES

ARC LAMP CEILING BOARDS



Cat. No. 2865



Cat. No. 44307



Cat. No. 36850

Cat. No.	Description	Std. Pkg.	List Price
2046	Plain arc lamp ceiling board (no fuses).....	10	\$1.00
2865	Arc lamp ceiling board, for Edison fuse plugs.....	10	1.25
44307	Arc lamp ceiling board, for Edison fuse plugs—for cleat, concealed or moulding work.....	10	1.25
36850	Arc lamp ceiling board, for Edison fuse plugs; includes ceiling switch, Cat. No. 47092.....	10	2.50
36844	Arc lamp ceiling board, for N.E.C.S. enclosed fuses.....	10	1.25
37635	Wooden sub-base, for use with Cat. No. 36844.....	10	.60

Fuses are not included in the Cat. Nos. covering the ceiling boards.

GE ALL-PORCELAIN WIRELESS CLUSTERS



Cat. No. 44166

These All-Porcelain Clusters conform with reflectors, shades, or ceilings, and have no metal shells to tarnish or come in contact with conducting parts. Covers can be removed and replaced, after connecting up, without the aid of a screwdriver. This saves time in installing. Flange plates for connecting to $\frac{1}{2}$ in. iron pipe make the clusters suitable for suspension or fixture work. The clusters are adapted for use with standard cluster shade holders.



Cat. No. 40519

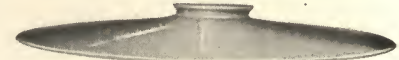
Cat. No.	Description	Std. Pkg.	List Price
40517	Two light, multiple, for attachment to ceiling.....	25	\$0.75
45208	Two light, multiple, with flange for fixtures.....	25	.90
40518	Two light, series, for attachment to ceiling.....	25	.75
45209	Two light, series, with flange for fixtures.....	25	.90
44165	Flange only, tapped $\frac{1}{2}$ in. pipe, for two light cluster, series or multiple.....	25	.15
40519	Three light, multiple, for attachment to ceiling.....	25	1.00
45210	Three light, multiple, with flange for fixtures.....	25	1.15
40520	Three light, series, for attachment to ceiling.....	25	1.00
45211	Three light, series, with flange for fixtures.....	25	1.15
44166	Flange only, tapped $\frac{1}{2}$ in. pipe, for three light cluster, series or multiple.....	25	.15
40521	Five light, multiple, for attachment to ceiling.....	25	1.50
45212	Five light, multiple, with flange for fixtures.....	25	1.65
40522	Five light, series, for attachment to ceiling.....	25	1.50
45213	Five light, series, with flange for fixtures.....	25	1.65
44167	Flange only, tapped $\frac{1}{2}$ in. pipe, for five light cluster, series or multiple.....	25	.15

COMBINATION FLANGE AND SHADEHOLDER ATTACHMENT FOR ALL-PORCELAIN CLUSTERS



Cat. No. 40556

Cat. No.	Description	Std. Pkg.	List Price
40556	Flange and shadeholder attachment, complete with rubber rings, for clusters, Cat. Nos. 40517, 40518, 40519, 40520, 40521, 40522.....	25	\$1.50
16527	Opal porcelain shade, 14 in. diam., for use with Cat. No. 40556.....	25	1.00



Cat. No. 16527

CLUSTERS FOR STREET CAR LIGHTS

FOR USE WITH STANDARD LAMP SOCKETS WITH 3-8" NOZZLES



Cat. No. 16425

Cat. No.	Description	List Price
14306	Two-light, complete.....	\$2.50
16425	Three-light, complete.....	2.50
14307	Four-light, complete.....	2.75
14308	Five-light, complete.....	2.75

These clusters are designed to take the porcelain shade Cat. No. 16527. Each cluster is complete with back plate, cluster body and rubber rings to cushion the shade. The shade and sockets are not included in the list prices given above. See page 259 for Cat. No. 50768 sockets.

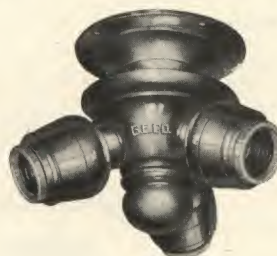
SOCKETS AND RECEPTACLES FIXTURES FOR 500 VOLT SOCKETS



Cat. Nos.
50705 and 50702



Cat. Nos.
50707 and 50702



Cat. Nos.
50708 and 50702



Cat. Nos.
50706 and 50702

Cat. No.	Description	Std. Pkg.	List Price	Cat. No.	Description	Std. Pkg.	List Price
50705	One-light support, for sockets Nos. 50701, 50702, 32440, 32442.....	25	\$0.75	50707	Two-light cluster, for Nos. 50701, 50702, 32440, 32442.....	25	\$1.30
50706	One-light pilot bracket, for Nos. 50701, 50702, 32440, 32442.....	25	1.60	50708	Three-light cluster, for Nos. 50701, 50702, 32440, 32442.....	25	3.00
				38938	Three-light cluster, for Nos. 25709, 25710, 32441, 32443.....	25	3.00

The Cat. No. of the fixture does not include sockets.
For prices of sockets referred to above see page 260.
Fixtures not adapted for shades.

ALTERNATING CURRENT BUZZER

This buzzer is used to indicate when incandescent lamps placed in obscure places are left burning. It is connected in series with the lamps so that when they are lighted, the current passing through the coil, which is wound on a soft steel core, causes a flat steel spring to vibrate rapidly and produce a buzzing sound.

The improved buzzer is adjusted to vibrate in series with one 16 c.p. lamp when it leaves the factory and can be easily re-adjusted to vibrate in series with one 10 c.p. or four 16 c.p. lamps. Once adjusted the cover protects it and prevents it getting out of adjustment.

The candle-power of the lamps is not affected on account of the very low resistance of the coil, and as the device neither makes nor breaks the circuit, it produces no fluctuation of the lights.

This buzzer is furnished with a polished brass cover having a fiber lining, and is designed for alternating current circuits only.



Cat. No. 32430

Cat. No.	Description	Std. Pkg.	List Price
32430	A.C. buzzer, 3 amp., 125 volts.....	100	\$0.50

PORTABLE LAMP GUARDS

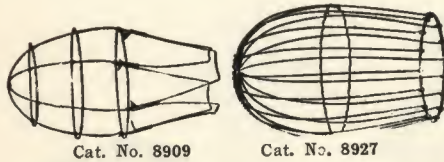


Cat. No. 42681

Cat. No.	Description	Std. Pkg.	List Price
4339	With key socket, for Edison lamps.....	25	\$1.25
4561	With keyless socket, for Edison lamps.....	25	1.00
25701	With steel wire guard and key socket, Cat. No. 9386, for Edison screw base lamps.....	25	2.50
42681	With keyless socket, Cat. No. 32440, extra heavy steel ribbon guard.....	25	2.50

SOCKETS AND RECEPTACLES

WIRE LAMP GUARDS



Cat. No. 8909

Cat. No. 8927

Cat. No.	Description	Std. Pkg.	List Price
8909	Expanding, tinned.....per gro.	144	\$20.00
8047	Expanding, brass.....per gro.	144	28.00
8927	Cage, tinned.....per gro.	144	22.00

SHADEHOLDERS



Cat. No. 6080



Cat. No. 41180



Cat. No. 71737

Cat. No.	Description	Std. Pkg.	List Price
6080	2 1/2" clamp shadeholder, to fit Edison or T-H sockets.....per gro.	144	\$8.40
6085	3 1/2" clamp shadeholder, to fit Edison or T-H sockets.....per gro.	144	14.50
41180	2 1/2" ring clamp shadeholder, to fit Edison or T-H sockets.....per gro.	720	9.00
41181	3 1/2" ring clamp shadeholder, to fit Edison or T-H sockets.....per gro.	144	18.00
71737	Shadeholder, for Edison weatherproof sockets and 500 volt weatherproof sockets shown on pages 265 and 260.....per gro.	144	18.00

SOCKET PLUGS AND BUSHINGS

		9165	Rubberite socket plug (3/8"-28 thread for 1/2" pipe).....per 100	1000	\$0.75
		50787	Rubberite socket plug (for 3/8" pipe).....per 100	100	1.00
		10509	Soft rubber socket plug (for 1/2" pipe).....per 100	1000	.90
		10510	Wooden socket plug (for 1/2" pipe).....per 100	1000	1.20
		10922	Rubberite socket bushing (3/8"-28 thread for 1/2" pipe).....per 100	1000	1.00

Cat. No. 9165 Cat. No. 10509

EDISON SOCKET RINGS

		Cat. No.	Description	Std. Pkg.	List Price
		50846	Composition ring, double flange.....per 100	100	\$0.04
		31796	Composition ring, single flange.....per 100	100	.04
		50866	Porcelain ring, single flange.....per 100	100	.05
		9399	Soft rubber ring, for weatherproof sockets.....per 100	100	3.50

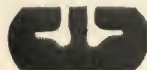
Cat. No. 9399 Cat. No. 50866

CORD ADJUSTERS



Cat. No. 9142

Cat. No. For Cord with 5/16" Ins.	Std. Pkg.	List Price	Cat. No. For Cord with 3/2" Ins.	Std. Pkg.	List Price	Description
9093	100	\$0.90	50791	100	\$0.90	Ball, stained cherry
9094	100	.90	50792	100	.90	Ball, plain maple
7769	100	3.75	50793	100	4.50	Linked ball
9142	100	.70	50794	100	.75	Bar, stained cherry
9064	100	.75	50795	100	.90	Bar, black enameled
5559	100	.90	5559	100	.90	Flat



Cat. No. 5559

Cat. No.	Description	Std. Pkg.	List Price Per 100
50780	Combination socket handle and adjuster, for sockets with 1/2" pipe tap.....per 100	100	\$9.00
50781	Combination socket handle and adjuster, for sockets with 3/4" pipe tap.....per 100	100	14.00



Cat. No. 50780

SNAP SWITCHES

RATINGS STANDARDIZED BY UNDERWRITERS' NATIONAL ELECTRIC ASSOCIATION

3 AMP. 250 VOLTS, 5 AMP. 125 VOLTS, SINGLE-POLE, CLEAT TYPE



Cat. No. 61909

Cat. No.	Description	Std. Pkg.	List Price
61909	All Porcelain	100	\$0.36
63313	All Porcelain, Indicating	100	.40

3 AMP. 250 VOLTS, 5 AMP. 125 VOLTS, SINGLE-POLE, MINIATURE BASE



Cat. No. 62555

Cat. No.	Description	Std. Pkg.	List Price
62556	Closed Base	250	\$0.28
62555	Closed Base, Indicating	250	.32
62554	Slotted Base	250	.28
62553	Slotted Base, Indicating	250	.32

3 AMP. 250 VOLTS, 5 AMP. 125 VOLTS, SINGLE-POLE



Cat. No. 59873

Cat. No.	Description	Std. Pkg.	List Price	Cat. No.	Description	Std. Pkg.	List Price
60295	Closed Base	100	\$0.36	59874	Slotted Base	100	\$0.36
60294	Closed Base, Indicating	100	.40	59873	Slotted Base, Indicating	100	.40

5 AMP. 250 VOLTS, 10 AMP. 125 VOLTS, SINGLE-POLE

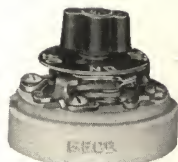
60450	Closed Base	100	\$0.48	60448	Slotted Base	100	\$0.48
60449	Closed Base, Indicating	100	.54	60447	Slotted Base, Indicating	100	.54

5 AMP. 250 VOLTS, DOUBLE-POLE

60953	Closed Base	100	\$0.56	60951	Slotted Base	100	\$0.56
60952	Closed Base, Indicating	100	.64	60950	Slotted Base, Indicating	100	.64

10 AMP. 250 VOLTS, DOUBLE-POLE

60454	Closed Base	100	\$0.66	60452	Slotted Base	100	\$0.66
60453	Closed Base, Indicating	100	.76	60451	Slotted Base, Indicating	100	.76



Cat. No. 60952

1 AMP. 250 VOLTS, 3 AMP. 125 VOLTS, THREE-WAY

60296	Closed Base	100	\$0.48	59875	Slotted Base	100	\$0.48
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3 AMP. 250 VOLTS, 5 AMP. 125 VOLTS, THREE-WAY

60955	Closed Base	100	\$0.56	60954	Slotted Base	100	\$0.56
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5 AMP. 250 VOLTS, 10 AMP. 125 VOLTS, THREE-WAY

60456	Closed Base	50	\$0.66	60455	Slotted Base	50	\$0.66
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Cat. No. 59875

2 AMP. 250 VOLTS, 5 AMP. 125 VOLTS, FOUR-WAY

60459	Closed Base	30	\$0.86	60458	Slotted Base	30	\$0.86
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SNAP SWITCHES

RATINGS STANDARDIZED BY UNDERWRITERS' NATIONAL
ELECTRIC ASSOCIATION

2 AMP. 250 VOLTS, 5 AMP. 125 VOLTS, TWO CIRCUIT

Cat. No.	Description	Std. Pkg.	List Price	Cat. No.	Description	Std. Pkg.	List Price
60463	Closed Base	30	\$0.76	60460	Slotted Base	30	\$0.76
60462	Closed Base, Indicating	30	.85	60461	Slotted Base, Indicating	30	.86



Cat. No. 60467

2 AMP. 250 VOLTS, 5 AMP. 125 VOLTS, THREE CIRCUIT

60467	Closed Base	30	\$0.76	60464	Slotted Base	30	\$0.76
60466	Closed Base, Indicating	30	.86	60465	Slotted Base, Indicating	30	.86

Cat. No.	Description	Std. Pkg.	List Price
60938	Sub-base for switch or receptacle, not over 2 1/4" diam.	100	\$0.05
60939	Sub-base for switch or receptacle, not over 2 1/8" diam.	100	.06

SPECIAL SWITCHES

28842	Single-pole key switch, 1 amp. 250 volts	100	\$0.35
65102	Double-pole ratchet switch, 25 amps. 125 volts	30	1.20
65122	Double-pole ratchet switch, 50 amps. 125 volts	10	3.00
65097	Double-pole ratchet switch, 10 amps. 125 volts, for interior conduit	100	.66
22656	Single-pole ratchet switch, 10 amps. 125 volts	100	.48



Cat. No. 21644

FOR 500 VOLT CIRCUITS

21644	Three-way snap switch, porcelain, 3 amps.	10	\$0.82
21645	S.P. snap switch, porcelain, 3 amps.	10	.72
27682	Comb. switch and cut-out, without fuse, 3 amps.	25	.90
28839	Enclosed Fuse, 3 amps. 600 volts, for Cat. No. 27682	100	.30
61179	Comb switch and cut-out, without fuse, 3 amps.	50	2.00

ROTARY FLUSH SNAP SWITCHES

Cat. No.	Description	Std. Pkg.	List Price
60469	Single-pole, 5 amps. 250 volts, 10 amps. 125 volts	50	\$0.71
60468	Single-pole, 5 amps. 250 volts, 10 amps. 125 volts, indicating	50	.81
60473	Double-pole, 10 amps. 250 volts	50	1.05
60470	Double-pole, 10 amps. 250 volts, indicating	50	1.15
60475	Three-way, 5 amps. 250 volts, 10 amps. 125 volts	50	1.05
60476	Four-way, 2 amps. 250 volts, 5 amps. 125 volts	10	1.05
60477	Two-circuit, 2 amps. 250 volts, 5 amps. 125 volts	10	1.05
60478	Two-circuit, 2 amps. 250 volts, 5 amps. 125 volts, indicating	10	1.15
60480	Three-circuit, 2 amps. 250 volts, 5 amps. 125 volts	10	1.05
60479	Three-circuit, 2 amps. 250 volts, 5 amps. 125 volts, indicating	10	1.15



Cat. No. 60473

FLUSH PLATES FOR ROTARY SWITCHES

Cat. No.	Description	Std. Pkg.	List Price
60481	Horizontal Plate for 1 switch	*	\$0.53
60482	Horizontal Plate for 2 switches	*	1.20
60483	Horizontal Plate for 3 switches	*	1.80
60484	Horizontal Plate for 4 switches	*	2.40
60485	Horizontal Plate for 5 switches	*	3.00
60486	Horizontal Plate for 6 switches	*	3.60
60487	Horizontal Plate for 7 switches	*	4.20
60488	Horizontal Plate for 8 switches	*	4.80
60489	Vertical (Tandem) Plate for 2 switches	*	1.20
60490	Vertical (Tandem) Plate for 3 switches	*	1.80
60491	Vertical (Tandem) Plate for 4 switches	*	2.40
61044	Indicating Plate for 1 switch	*	.53



Cat. No. 61044



Cat. No. 60481

* Std. Pkg. 100 single plates or equivalent in gangs.

SNAP SWITCHES

RATINGS STANDARDIZED BY UNDERWRITERS' NATIONAL ELECTRIC ASSOCIATION

FLUSH PUSH BUTTON SWITCHES



Cat. No. 49749

Cat. No.	Description	Std. Pkg.	List Price
49748	Single-pole, 5 amps. 250 volts	100	\$0.72
49749	Double-pole, 10 amps. 250 volts	50	1.00
49750	Three-way, 5 amps. 250 volts	50	1.00
49751	Four-way, 5 amps. 250 volts	10	3.25

100 Push button switches assorted also constitute a standard package.

FLUSH PLATES FOR PUSH BUTTON SWITCHES



Cat. No. 49752

49752	Horizontal Plate for 1 switch	*	\$0.35
60492	Horizontal Plate for 2 switches	*	.70
60493	Horizontal Plate for 3 switches	*	1.05
60494	Horizontal Plate for 4 switches	*	1.40
60495	Horizontal Plate for 5 switches	*	1.75
60496	Horizontal Plate for 6 switches	*	2.10
60497	Horizontal Plate for 7 switches	*	2.45
60498	Horizontal Plate for 8 switches	*	2.80
60499	Vertical (Tandem) Plate for 2 switches	*	.70
60500	Vertical (Tandem) Plate for 3 switches	*	1.05
60501	Vertical (Tandem) Plate for 4 switches	*	1.40

* Std. Pkg. 100 single plates or equivalent in gangs.

LOCK ATTACHMENTS, KEYS AND SWITCH HANDLES

Cat. No.	Description	Std. Pkg.	List Price
60598	Lock Attachment for Rotary Switches	100	\$0.16
60599	Key for No. 60598	100	.06
	Switch handles	100	.06

Polished nickel is standard finish on Snap Switch covers. For all other finishes, except Silver and Gold, add **\$0.10** to the list price per switch.

Polished Brass, old or brush brass, oxidized copper and polished nickel are standard finishes for flush plates. For all other finishes, except silver and gold, add **\$0.10** to the list price per switch.

Special Plates **\$0.06** list per square inch.

Marking on Switch Plates or Covers **\$0.06** additional list price per letter or numeral.



Cat. No. 47092

CEILING SWITCHES

Cat. No.	Description	Std. Pkg.	List Price
47092	Single-pole, 5 amps. 250 volts, 10 amps. 125 volts, closed base	30	\$1.00
47093	Single-pole, 5 amps. 250 volts, 10 amps. 125 volts, slotted base	30	1.00

PENDENT SWITCHES



Cat. No. 42862

Cat. No.	Description	Std. Pkg.	List Price
*42862	Double push button switch, 3 amps. 250 volts, 6 amps. 125 volts with double insulating bushing	100	\$0.80
†44145	Double push button switch, 3 amps. 250 volts, 6 amps. 125 volts with 1/2" nozzle	100	.80
†44146	Double push button switch, 3 amps. 250 volts, 6 amps. 125 volts with 3/4" nozzle	100	.90
50712	Push button switch, 5 amps. 125 volts, with double insulating bushing	100	.50
†43755	Push button switch, 5 amps. 125 volts, with 1/2" nozzle	100	.50
†38647	Push button switch, 5 amps. 125 volts, with 3/4" nozzle	100	.60
50725	Push button switch, 5 amps. 250 volts, 10 amps. 125 volts, with double insulating bushing	100	.80
†43756	Push button switch, 5 amps. 250 volts, 10 amps. 125 volts, with 1/2" nozzle	100	.80
†35249	Push button switch, 5 amps. 250 volt, 10 amps. 125 volts, with 3/4" nozzle	100	.90
28841	Key switch, 1 amp. 250 volts	100	.35



Cat. No. 28841



Cat. No. 50725



Cat. No. 50712

* Ratings standardized by Underwriters' National Electric Association.

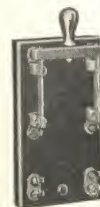
† As these switches are sometimes used on fixtures or on conduit, Cat. Nos. have been assigned to switches having 1/2" or 3/4" pipe, threaded nozzles, but these will not be furnished with moulded bushings and will be supplied on special orders.

AIR BREAK SWITCHES

GÉCO KNIFE SWITCHES

150 Amp. Double
Pole Without Fuses

All Copper, Single Throw, Front Connected, Slate Base Switches, Single-, Double- and Triple-Pole, with and without Open Link Fuses, are made of the very best material with all copper blades and clips, and mounted on slate bases. The switches are furnished with proper terminal connections, and all conducting parts are pure copper, with dipped and lacquered finish. These switches are correctly designed for 250 volts direct current. Switches of 100 amp. capacity and over can be used on 500 volts alternating current.

15 Amp. Double
Pole With Open
Link Fuses

WITH OPEN LINK FUSE CONNECTIONS

WITHOUT FUSE CONNECTIONS

Cat. No.	Amp. Cap.	Description	List Price	Cat. No.	Amp. Cap.	Description	List Price	Cat. No.	Amp. Cap.	Description	List Price	Cat. No.	Amp. Cap.	Description	List Price
38263	15	D.P.S.T.	\$0.80	38272	75	D.P.S.T.	\$2.97	38280	15	D.P.S.T.	\$0.72	38289	75	D.P.S.T.	\$2.70
38264	15	T.P.S.T.	1.45	38273	75	T.P.S.T.	4.55	38281	15	T.P.S.T.	1.32	38290	75	T.P.S.T.	4.14
38265	25	S.P.S.T.	.80	38274	100	S.P.S.T.	2.64	38282	25	S.P.S.T.	.72	38291	100	S.P.S.T.	2.40
38266	25	D.P.S.T.	1.06	38275	100	D.P.S.T.	3.70	38283	25	D.P.S.T.	.96	38292	100	D.P.S.T.	3.36
38267	25	T.P.S.T.	1.85	38276	100	T.P.S.T.	5.94	38284	25	T.P.S.T.	1.68	38293	100	T.P.S.T.	5.40
38268	50	S.P.S.T.	1.45	38277	150	S.P.S.T.	3.63	38285	50	S.P.S.T.	1.32	38294	150	S.P.S.T.	3.30
38269	50	D.P.S.T.	1.98	38278	150	D.P.S.T.	6.00	38286	50	D.P.S.T.	1.80	38295	150	D.P.S.T.	5.47
38270	50	T.P.S.T.	3.03	38279	150	T.P.S.T.	8.55	38287	50	T.P.S.T.	2.76	38296	150	T.P.S.T.	7.78
38271	75	S.P.S.T.	1.98					38288	75	S.P.S.T.	1.80				

An assortment of 10 of the above switches will constitute a standard package.



Cat. No. 57774

PUNCHED CLIP LEVER SWITCHES

LIMITS—POTENTIAL, 125 TO 150 VOLTS; CURRENT, 25 TO 300 AMPERES
SINGLE-, DOUBLE- AND TRIPLE-POLE; SINGLE AND DOUBLE THROW; WITH AND WITHOUT BASES; WITH AND WITHOUT FUSE CONNECTIONS

Punched Clip Lever Switches are designed to meet the demand for inexpensive but efficient standard low potential switches.

All Punched Clip Lever Switches when mounted on bases are front connected. When furnished without bases these switches are provided with nuts and cable terminals complete. All metal parts are natural metal. The handles are of wood, stained black. Switches of 300 ampere capacity have slate bases; all other sizes have porcelain bases.

WITH BASES

WITHOUT BASES

FOR FUSES

WITHOUT FUSES

FOR FUSES

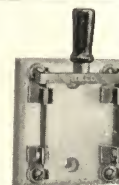
WITHOUT FUSES

CAT. NO.				Amp. Cap.	Description	List Price	CAT. NO.				Amp. Cap.	Description	List Price	CAT. NO.				Amp. Cap.	Description	List Price
125 Volts	250 Volts						125 Volts	250 Volts						125 Volts	250 Volts					
19500	21402	25	D.P.S.T.	\$0.85			71027	21404	25	D.P.S.T.	.70			19506	23940	25	D.P.S.T.	\$2.00		
19502	25	D.P.D.T.	1.25				19508	25	D.P.D.T.	3.00				19510	23942	25	D.P.S.T.	1.90		
19250	21408	25	T.P.S.T.	1.60			19504	21406	25	D.P.D.T.	1.15			19523	23946	25	T.P.S.T.	3.00		
19501	21403	50	D.P.S.T.	1.35			19251	21410	25	T.P.S.T.	1.40			19507	23941	50	D.P.S.T.	2.10		
19503	50	D.P.D.T.	2.10				21401	50	S.P.S.T.	.85				19509	50	D.P.D.T.	3.25			
19525	21409	50	T.P.S.T.	2.00			71028	21405	50	D.P.S.T.	1.10			19527	23947	50	T.P.S.T.	3.25		
	42634	75	D.P.S.T.	2.75			19505	21407	50	D.P.D.T.	1.60				57787	300	D.P.S.T.	18.50		
	42635	75	T.P.S.T.	4.40			19524	21411	50	T.P.S.T.	1.75				57788	300	T.P.S.T.	23.50		
	42636	150	D.P.S.T.	5.00			42630	75	D.P.S.T.	2.25										
	42637	150	T.P.S.T.	7.00			42631	75	T.P.S.T.	3.45										
	57776	300	D.P.S.T.	13.00			42632	150	D.P.S.T.	4.00										
	57777	300	T.P.S.T.	20.00			42633	150	T.P.S.T.	6.00										
							57774	300	D.P.S.T.	11.50										
							57775	300	T.P.S.T.	17.00										

NOTE.—An assortment of 10 of above switches will constitute a standard package.

Cat. No.	Description	Std. Pkg.	List Price	Cat. No.	Description	Std. Pkg.	List Price
36846	D.P.S.T. 15 Amp., 125 Volt P.C. Switch (Porcelain Base).....	250	\$0.42	42503	D.P.S.T. 15 Amp., 250 Volt P.C. Switch (Slate Base).....	250	\$0.50

Made only in the styles shown: double-pole, single throw, front connected on bases, fuseless.



Cat. No. 36846

AIR BREAK SWITCHES

PUNCHED CLIP SPRING SWITCHES (Concluded)



Cat. No. 57514

LIMITS—75 AND 150 AMPERES, 250 VOLTS; 30 AND 75 AMPERES, 500 VOLTS
**SINGLE-, DOUBLE- AND TRIPLE-POLE; SINGLE THROW; WITH AND WITHOUT BASES;
 WITH AND WITHOUT FUSE CONNECTIONS**

Punched Clip Spring Switches are low priced quick break switches for moderate potentials, and small capacity.

These switches are particularly well adapted for use in connection with small and medium size motors. All these switches on bases are made for front connection. When furnished without bases they are provided with nuts and cable terminals.

All metal parts have natural metal finish. The handles are of wood, stained black. 250 volt switches have porcelain bases; 500 volt, slate bases.

WITH BASES

FOR FUSES

WITHOUT FUSES

WITHOUT BASES

FOR FUSES

WITHOUT FUSES

CAT. NO.		Description	List Price	CAT. NO.		Amp. Cap.	Description	List Price	CAT. NO.		Description	List Price	CAT. NO.		Amp. Cap.	Description	List Price
250 Volts	Amp. Cap.			250 Volts	500 Volts				250 Volts	Amp. Cap.			250 Volts	500 Volts			
57509	75	D.P.S.T.	\$4.00	57750	30	S.P.S.T.	\$2.00	57725	75	D.P.S.T.	\$5.00	57789	30	S.P.S.T.	30	S.P.S.T.	\$2.35
57511	75	T.P.S.T.	6.00	57751	30	D.P.S.T.	4.00	57731	75	T.P.S.T.	7.50	57792	30	D.P.S.T.	30	D.P.S.T.	4.50
57515	150	D.P.S.T.	6.50	57752	30	T.P.S.T.	6.00	57726	150	D.P.S.T.	8.00	57795	30	T.P.S.T.	30	T.P.S.T.	6.75
57517	150	T.P.S.T.	9.50	57753	75	S.P.S.T.	3.00	57732	150	T.P.S.T.	12.00	57790	75	S.P.S.T.	75	S.P.S.T.	3.50
				57754	75	D.P.S.T.	5.50					57791	75	D.P.S.T.	75	D.P.S.T.	4.50
				57755	75	T.P.S.T.	8.00					57793	75	D.P.S.T.	75	D.P.S.T.	7.50
				57508	75	D.P.S.T.	3.50					57784	75	T.P.S.T.	75	T.P.S.T.	6.75
				57510	75	T.P.S.T.	5.00					57796	75	T.P.S.T.	75	T.P.S.T.	10.00
				57514	150	D.P.S.T.	5.50					57782	150	D.P.S.T.	150	D.P.S.T.	7.00
				57516	150	T.P.S.T.	8.00					57785	150	T.P.S.T.	150	T.P.S.T.	10.50

NOTE.—An assortment of 10 of the above switches will constitute a standard package.

LEVER SWITCHES

TYPE L, FORM D-12

LIMITS—POTENTIAL, 250 VOLTS DIRECT CURRENT; 500 VOLTS ALTERNATING CURRENT; 30 TO 6000 AMPERES

SINGLE-, DOUBLE-, TRIPLE- AND FOUR-POLE; SINGLE AND DOUBLE THROW; WITH AND WITHOUT BASES; WITH AND WITHOUT FUSE CONNECTIONS

Form D-12 lever switches are made front and back connected, single-, double-, triple- and four-pole, single and double throw. They are furnished with link fuse connections in capacities ranging from 30 to 800 amperes, and with enclosed fuse connections in capacities ranging from 30 to 600 amperes.

Back connected switches, without fuse connections, are made in capacities of from 30 to 6000 amperes and front connected switches, without fuse connections, in capacities of from 30 to 800 amperes. These switches are for 250 volts direct current service and switches of 100 amperes capacity and above without fuses are suitable for use on 500 volt alternating current service.

The front connected switch is mounted on natural black slate base. The back connected switch is unmounted. A drilling template is furnished to facilitate mounting.

All metal parts of these switches are made of the best hard drawn copper, and the switches have been approved by the Underwriters' National Electric Association.

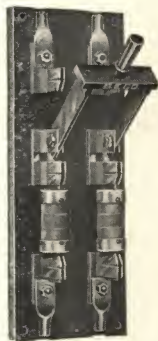
For sizes of terminals furnished with each switch see pages 319 to 321. All back connected switches up to and including 100 amperes capacity are equipped with one terminal and two nuts on each stud. Above 100 amperes capacity and including 1200 amperes, two nuts are furnished on each stud and one terminal on each contact stud only; no terminals are supplied on the hinge studs. Above 1200 amperes two nuts per stud are furnished and no terminals.

FINISHES

These switches are furnished in two finishes designated by the numbers 1 and 2. No. 1 FINISH:—All metal parts are dipped and heavily lacquered. No. 2 FINISH:—All metal parts are bright polished (buffed) and heavily lacquered.

PLACING ORDERS

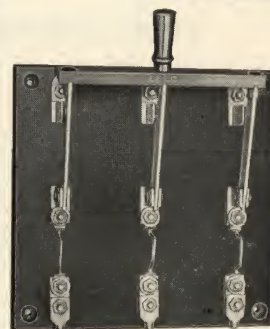
Always order by catalogue number, specifying the finish desired. When reference to finish is omitted, front connected switches will be furnished with No. 1 and back connected switches with No. 2 finish.



Cat. No. 41809



Cat. No. 41624



Cat. No. 41674

AIR BREAK SWITCHES

LEVER SWITCHES (Continued)

TYPE L, FORM D-12, 250 VOLTS, DIRECT CURRENT

FRONT CONNECTED, MOUNTED ON SLATE BASES, WITHOUT FUSE CONNECTIONS

CAT. NO.		Amp. Cap.	De- scrip- tion	LIST PRICE				CAT. NO.		Amp. Cap.	De- scrip- tion	LIST PRICE			
Single Throw	Double Throw			Single Throw		Double Throw		Single Throw	Double Throw			Single Throw		Double Throw	
				Dipped	Buffed	Dipped	Buffed					Dipped	Buffed	Dipped	Buffed
41600	41604	30	S.P.	\$0.90	\$1.25	\$1.25	\$1.75	41632	41636	300	S.P.	\$5.50	\$6.50	\$8.50	\$10.00
41601	41605	30	D.P.	1.25	1.75	1.90	2.90	41633	41637	300	D.P.	9.00	10.75	12.75	15.25
41602	41606	30	T.P.	1.90	2.90	2.90	3.90	41634	41638	300	T.P.	12.75	15.25	18.50	22.25
41603	41607	30	4 P.	2.90	3.90	4.50	6.00	41635	41639	300	4 P.	18.50	22.25	31.50	38.00
41608	41612	60	S.P.	1.25	1.55	1.80	2.30	41640	41644	400	S.P.	7.50	9.00	11.50	13.75
41609	41613	60	D.P.	1.80	2.30	2.60	3.35	41641	41645	400	D.P.	12.50	15.00	17.50	21.00
41610	41614	60	T.P.	2.60	3.35	4.00	5.00	41642	41646	400	T.P.	17.50	21.00	25.50	30.50
41611	41615	60	4 P.	4.00	5.00	6.50	8.50	41643	41647	400	4 P.	25.50	30.50	40.00	48.00
41616	41620	100	S.P.	2.00	2.50	3.00	3.75	41648	41652	600	S.P.	10.00	12.50	16.00	19.25
41617	41621	100	D.P.	3.25	4.00	4.50	5.75	41649	41653	600	D.P.	17.00	20.50	24.00	28.75
41618	41622	100	T.P.	4.50	5.75	8.25	10.25	41650	41654	600	T.P.	24.00	28.75	34.00	41.00
41619	41623	100	4 P.	8.00	10.00	12.00	15.00	41651	41655	600	4 P.	34.00	41.00	54.00	65.00
41624	41628	200	S.P.	3.75	4.50	5.75	7.00	41656	41660	800	S.P.	12.75	15.25	20.00	24.50
41625	41629	200	D.P.	5.50	6.50	8.75	10.50	41657	41661	800	D.P.	21.00	25.00	30.00	36.00
41626	41630	200	T.P.	8.75	10.50	13.50	15.50	41658	41662	800	T.P.	30.00	36.00	44.50	53.50
41627	41631	200	4 P.	13.00	15.50	23.00	27.75	41659	41663	800	4 P.	44.50	53.50	70.00	84.00

FRONT CONNECTED, MOUNTED ON SLATE BASES, WITH CONNECTIONS FOR OPEN LINK FUSES

41672	41676	30	S.P.	\$1.00	\$1.35	\$1.50	\$2.00	41704	41708	300	S.P.	\$6.75	\$8.00	\$10.00	\$12.50
41673	41677	30	D.P.	1.50	2.00	2.40	3.65	41705	41709	300	D.P.	10.50	12.50	15.00	18.00
41674	41678	30	T.P.	2.40	3.65	3.50	4.50	41706	41710	300	T.P.	15.00	18.00	22.50	27.00
41675	41679	30	4 P.	3.50	5.00	6.50	7.75	41707	41711	300	4 P.	22.00	26.75	35.00	42.00
41680	41684	60	S.P.	1.50	2.10	2.40	2.90	41712	41716	400	S.P.	9.00	11.00	13.75	16.50
41681	41685	60	D.P.	2.40	2.90	3.50	4.25	41713	41717	400	D.P.	14.75	17.50	22.00	26.50
41682	41686	60	T.P.	3.50	4.25	5.50	6.75	41714	41718	400	T.P.	22.00	26.50	32.00	38.50
41683	41687	60	4 P.	5.50	6.75	10.50	12.50	41715	41719	400	4 P.	32.00	38.50	50.00	60.00
41688	41692	100	S.P.	2.75	3.50	4.00	5.00	41720	41724	600	S.P.	13.00	15.50	20.00	24.50
41689	41693	100	D.P.	4.50	5.75	6.00	7.50	41721	41725	600	D.P.	20.00	24.50	30.00	36.50
41690	41694	100	T.P.	6.00	7.50	9.50	11.75	41722	41726	600	T.P.	30.00	36.50	44.00	53.50
41691	41695	100	4 P.	9.25	11.25	13.50	16.75	41723	41727	600	4 P.	44.00	53.50	64.00	78.00
41696	41700	200	S.P.	4.75	5.75	6.75	8.00	41728	41732	800	S.P.	16.00	19.00	24.00	28.50
41697	41701	200	D.P.	7.25	8.75	10.00	12.50	41729	41733	800	D.P.	24.00	28.50	36.00	43.25
41698	41702	200	T.P.	10.00	12.00	15.50	18.75	41730	41734	800	T.P.	36.00	43.25	54.50	65.50
41699	41703	200	4 P.	15.00	18.00	25.00	30.00	41731	41735	800	4 P.	54.50	65.50	80.00	96.00

FRONT CONNECTED, MOUNTED ON SLATE BASES, WITH CONNECTIONS FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES

41792	41748	30	S.P.	\$1.25	\$1.80	\$2.00	\$2.70	41804	41772	200	S.P.	\$5.50	\$6.75	\$7.75	\$9.00
41793	41749	30	D.P.	2.00	2.70	2.75	3.50	41805	41773	200	D.P.	8.25	10.00	11.75	14.50
41794	41750	30	T.P.	2.75	3.50	4.00	5.75	41806	41774	200	T.P.	12.00	14.50	19.00	23.00
41795	41751	30	4 P.	4.00	5.75	7.50	9.75	41807	41775	200	4 P.	18.50	22.50	29.00	35.00
41796	41756	60	S.P.	1.75	2.50	2.75	3.75	41808	41780	400	S.P.	11.50	13.50	17.00	20.00
41797	41757	60	D.P.	2.75	3.75	4.50	6.00	41809	41781	400	D.P.	18.00	21.00	25.00	30.00
41798	41758	60	T.P.	4.50	6.00	6.00	8.50	41810	41782	400	T.P.	25.00	30.00	37.00	44.00
41799	41759	60	4 P.	6.00	8.50	11.00	14.00	41811	41783	400	4 P.	37.00	43.00	54.00	65.00
41800	41764	100	S.P.	3.75	4.50	5.25	6.50	41812	41788	600	S.P.	16.50	20.00	24.00	28.75
41801	41765	100	D.P.	5.75	7.25	7.50	9.50	41813	41789	600	D.P.	24.50	29.00	36.00	43.25
41802	41766	100	T.P.	7.75	9.50	13.00	16.25	41814	41790	600	T.P.	36.00	43.25	54.50	65.50
41803	41767	100	4 P.	12.50	15.75	16.50	20.50	41815	41791	600	4 P.	54.50	64.50	80.00	96.00

Switches of 100 ampere capacity and above, without fuses, are suitable for use on 500 volt, alternating current circuits.

AIR BREAK SWITCHES

LEVER SWITCHES (Continued)

TYPE L, FORM D-12, 250 VOLTS

BACK CONNECTED, FOR MOUNTING ON PANELS, WITHOUT FUSE CONNECTIONS,
BUFFED FINISH

CAT. NO.		Amp. Cap.	Descrip- tion	LIST PRICE		CAT. NO.		Amp. Cap.	Descrip- tion	LIST PRICE	
Single Throw	Double Throw			Single Throw	Double Throw	Single Throw	Double Throw			Single Throw	Double Throw
41816	41820	30	S.P.	\$1.25	\$1.80	41872	41876	800	S.P.	\$21.75	\$34.50
41817	41821	30	D.P.	1.80	2.70	41873	41877	800	D.P.	35.25	50.50
41818	41822	30	T.P.	2.70	4.00	41874	41878	800	T.P.	50.50	75.00
41819	41823	30	4 P.	4.00	5.00	41875	41879	800	4 P.	73.00	117.50
41824	41828	60	S.P.	2.00	3.50	41880	41884	1000	S.P.	38.00	52.00
41825	41829	60	D.P.	3.50	5.00	41881	41885	1000	D.P.	76.00	104.00
41826	41830	60	T.P.	5.00	7.00	41882	41886	1000	T.P.	121.00	*
41827	41831	60	4 P.	7.00	10.00	41883	41887	1000	4 P.	*	*
41832	41836	100	S.P.	2.50	3.75	41888	41892	1200	S.P.	44.50	61.00
41833	41837	100	D.P.	4.00	5.75	41889	41893	1200	D.P.	89.00	122.00
41834	41838	100	T.P.	5.75	10.25	41890	41894	1200	T.P.	137.00	*
41835	41839	100	4 P.	10.00	15.00	41891	41895	1200	4 P.	*	*
41840	41844	200	S.P.	5.00	7.50	41896	41900	1500	S.P.	51.00	70.00
41841	41845	200	D.P.	7.25	11.50	41897	41901	1500	D.P.	102.00	140.00
41842	41846	200	T.P.	11.50	17.75	41898	41902	1500	T.P.	153.00	*
41843	41847	200	4 P.	17.25	30.00	41899	41903	1500	4 P.	*	*
41848	41852	300	S.P.	7.50	11.75	41904	41908	2000	S.P.	58.00	79.00
41849	41853	300	D.P.	12.50	17.50	41905	41909	2000	D.P.	117.00	159.00
41850	41854	300	T.P.	17.50	26.00	41906	41910	2000	T.P.	175.00	*
41851	41855	300	4 P.	25.50	43.50	41907	41911	2000	4 P.	*	*
41856	41860	400	S.P.	10.00	16.00	41912	41915	3000	S.P.	128.00	170.00
41857	41861	400	D.P.	17.00	24.00	41913	41916	3000	D.P.	257.00	340.00
41858	41862	400	T.P.	24.00	35.00	41914	41917	3000	T.P.	385.00	*
41859	41863	400	4 P.	35.00	57.00	41918	41920	4000	S.P.	146.00	206.00
41864	41868	600	S.P.	15.00	23.00	41919	41921	4000	D.P.	292.00	413.00
41865	41869	600	D.P.	24.00	36.00	41922	41923	5000	S.P.	180.00	252.00
41866	41870	600	T.P.	36.00	55.00	41924	41925	6000	S.P.	237.00	333.00
41867	41871	600	4 P.	55.00	80.00						

Switches of 100 ampere capacity and above, without fuses, are suitable for use on 500 volt alternating current circuits.

BACK CONNECTED, FOR MOUNTING ON PANELS, WITH CONNECTIONS FOR OPEN LINK FUSES, BUFFED FINISH

41926	41930	30	S.P.	\$1.50	\$2.25	41958	41962	300	S.P.	\$9.25	\$13.75
41927	41931	30	D.P.	2.25	3.50	41959	41963	300	D.P.	14.50	20.75
41928	41932	30	T.P.	3.50	5.50	41960	41964	300	T.P.	20.75	31.00
41929	41933	30	4 P.	5.50	10.00	41961	41965	300	4 P.	30.50	51.00
41934	41938	60	S.P.	2.50	4.00	41966	41970	400	S.P.	12.50	19.00
41935	41939	60	D.P.	4.00	6.00	41967	41971	400	D.P.	20.00	30.00
41936	41940	60	T.P.	6.00	10.00	41968	41972	400	T.P.	30.00	44.00
41937	41941	60	4 P.	10.00	17.50	41969	41973	400	4 P.	44.00	66.00
41942	41946	100	S.P.	3.50	6.00	41974	41978	600	S.P.	17.50	27.00
41943	41947	100	D.P.	6.50	8.50	41975	41979	600	D.P.	29.50	44.00
41944	41948	100	T.P.	8.50	13.50	41976	41980	600	T.P.	44.00	64.00
41945	41949	100	4 P.	13.50	21.00	41977	41981	600	4 P.	64.00	95.00
41950	41954	200	S.P.	6.25	9.00	41982	41986	800	S.P.	26.50	40.25
41951	41955	200	D.P.	9.50	13.25	41983	41987	800	D.P.	41.25	60.50
41952	41956	200	T.P.	13.25	20.50	41984	41988	800	T.P.	60.50	91.75
41953	41957	200	4 P.	19.25	33.00	41985	41989	800	4 P.	89.75	134.50

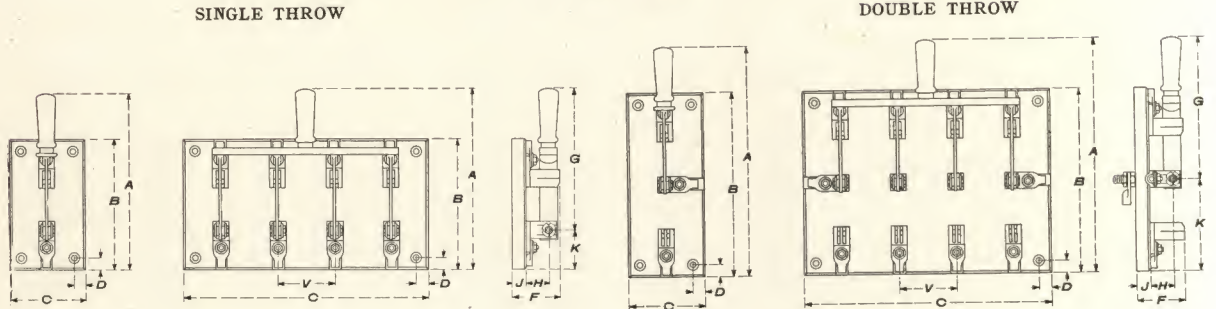
BACK CONNECTED, FOR MOUNTING ON PANELS, WITH CONNECTIONS FOR NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSES BUFFED FINISH

42046	41994	30	S.P.	\$1.60	\$2.50	42058	42018	200	S.P.	\$7.75	\$10.75
42047	41995	30	D.P.	2.50	4.00	42059	42019	200	D.P.	11.00	17.00
42048	41996	30	T.P.	4.00	6.00	42060	42020	200	T.P.	17.00	25.00
42049	41997	30	4 P.	6.00	11.00	42061	42021	200	4 P.	25.00	38.00
42050	42002	60	S.P.	3.00	5.00	42062	42026	400	S.P.	15.50	23.00
42051	42003	60	D.P.	5.00	8.00	42063	42027	400	D.P.	24.00	34.00
42052	42004	60	T.P.	8.00	11.50	42064	42028	400	T.P.	34.00	54.00
42053	42005	60	4 P.	11.50	18.50	42065	42029	400	4 P.	54.00	76.00
42054	42010	100	S.P.	4.75	6.75	42066	42034	600	S.P.	23.00	34.00
42055	42011	100	D.P.	7.50	9.50	42067	42035	600	D.P.	35.00	52.00
42056	42012	100	T.P.	9.50	15.00	42068	42036	600	T.P.	52.00	76.00
42057	42013	100	4 P.	15.00	23.00	42069	42037	600	4 P.	76.00	110.00

AIR BREAK SWITCHES LEVER SWITCHES (Continued)

TYPE L, FORM D-12, FRONT CONNECTED ON SLATE BASES WITHOUT FUSE
CONNECTIONS, 250 VOLTS*

DIMENSIONS



SINGLE-POLE

SINGLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41600	5 $\frac{3}{8}$	4 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	30	41604	7 $\frac{1}{8}$	6 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
60	41608	7 $\frac{1}{8}$	6	3	1 $\frac{1}{8}$	2 $\frac{1}{8}$	5 $\frac{1}{8}$	2 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	60	41612	10 $\frac{1}{8}$	9	3	1 $\frac{1}{8}$	2 $\frac{1}{8}$	5 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
100	41616	9 $\frac{1}{8}$	7 $\frac{1}{8}$	4	1 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	100	41620	12 $\frac{1}{8}$	10	4	1 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
200	41624	11 $\frac{1}{8}$	10 $\frac{1}{8}$	4	1 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	200	41628	15 $\frac{1}{8}$	14	5	1 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
300	41632	13 $\frac{1}{8}$	13	4 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	300	41636	17 $\frac{1}{8}$	17	6 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
400	41640	15 $\frac{1}{8}$	14 $\frac{1}{2}$	4 $\frac{1}{2}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	10	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	400	41644	19 $\frac{1}{8}$	19	7	1 $\frac{1}{8}$	4 $\frac{1}{8}$	10	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
600	41648	17 $\frac{1}{8}$	17 $\frac{1}{2}$	5 $\frac{1}{2}$	1	5 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	600	41652	22 $\frac{1}{8}$	22	8	1	5 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
800	41656	20 $\frac{1}{8}$	19	5 $\frac{1}{2}$	1	5 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	800	41660	25 $\frac{1}{8}$	24 $\frac{1}{2}$	9	1	5 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$

DOUBLE-POLE

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41601	5 $\frac{3}{8}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	30	41605	7 $\frac{1}{8}$	6 $\frac{1}{2}$	4 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
60	41609	7 $\frac{1}{8}$	6	6	1 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	60	41613	10 $\frac{1}{8}$	9	6	1 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
100	41617	9 $\frac{1}{8}$	7 $\frac{1}{8}$	7	1 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	100	41621	12 $\frac{1}{8}$	10	7	1 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
200	41625	11 $\frac{1}{8}$	10 $\frac{1}{8}$	8	1 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	200	41629	15 $\frac{1}{8}$	14	9 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
300	41633	14 $\frac{1}{8}$	13	8 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	300	41637	18 $\frac{1}{8}$	17	12	1 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
400	41641	15 $\frac{1}{8}$	14 $\frac{1}{2}$	9	1 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	400	41645	19 $\frac{1}{8}$	19	14	1 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
600	41649	18	17 $\frac{1}{2}$	10	1	5 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	600	41653	22 $\frac{1}{8}$	22	16	1	5 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
800	41657	20 $\frac{1}{8}$	19	11	1	5 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	800	41661	26	24 $\frac{1}{2}$	17 $\frac{1}{2}$	1	5 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$

TRIPLE-POLE

TRIPLE-POLE

30	41602	5 $\frac{3}{8}$	4 $\frac{1}{2}$	7	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	30	41606	7 $\frac{1}{8}$	6 $\frac{1}{2}$	7	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
60	41610	7 $\frac{3}{8}$	6	9	1 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	60	41614	10 $\frac{1}{8}$	9	9	1 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
100	41618	9 $\frac{1}{8}$	7 $\frac{1}{8}$	10	1 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	100	41622	12 $\frac{1}{8}$	10	10	1 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
200	41626	11 $\frac{1}{8}$	10 $\frac{1}{8}$	11 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	200	41630	15 $\frac{1}{8}$	14	13 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
300	41634	14 $\frac{1}{8}$	13	12 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	300	41638	18 $\frac{1}{8}$	17	16	1 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
400	41642	15 $\frac{1}{8}$	14 $\frac{1}{2}$	13 $\frac{1}{2}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	400	41646	19 $\frac{1}{8}$	19	18	1 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$
600	41650	18	17 $\frac{1}{2}$	15	1	5 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	600	41654	22 $\frac{1}{8}$	22	20 $\frac{1}{2}$	1	5 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
800	41658	20 $\frac{1}{8}$	19	16 $\frac{1}{2}$	1	5 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	800	41662	26	24 $\frac{1}{2}$	23	1	5 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$

FOUR-POLE

FOUR-POLE

30	41603	5 $\frac{3}{8}$	4 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	30	41607	8	6 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
60	41611	7 $\frac{1}{8}$	6	12	1 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	60	41615	10 $\frac{1}{8}$	9	12	1 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
100	41619	9 $\frac{1}{8}$	7 $\frac{1}{8}$	13	1 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	100	41623	12 $\frac{1}{8}$	10	13	1 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
200	41627	12	10 $\frac{1}{2}$	15	1 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	200	41631	15 $\frac{1}{8}$	14	17	1 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
300	41635	14 $\frac{1}{8}$	13	16 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	300	41639	18 $\frac{1}{8}$	17	20	1 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
400	41643	15 $\frac{1}{8}$	14 $\frac{1}{2}$	17 $\frac{1}{2}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	400	41647	19 $\frac{1}{8}$	19	22 $\frac{1}{2}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{8}$
600	41651	18	17 $\frac{1}{2}$	20	1	5 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	600	41655	22 $\frac{1}{8}$	22	25 $\frac{1}{2}$	1	5 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$
800	41659	20 $\frac{1}{8}$	19	22	1	5 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	800	41663	26	24 $\frac{1}{2}$	28	1	5 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$

For REFERENCE ONLY.

* Switches of capacities of 100 amperes and above without fuse connections are approved for use on 500 volt alternating current circuits.

AIR BREAK SWITCHES

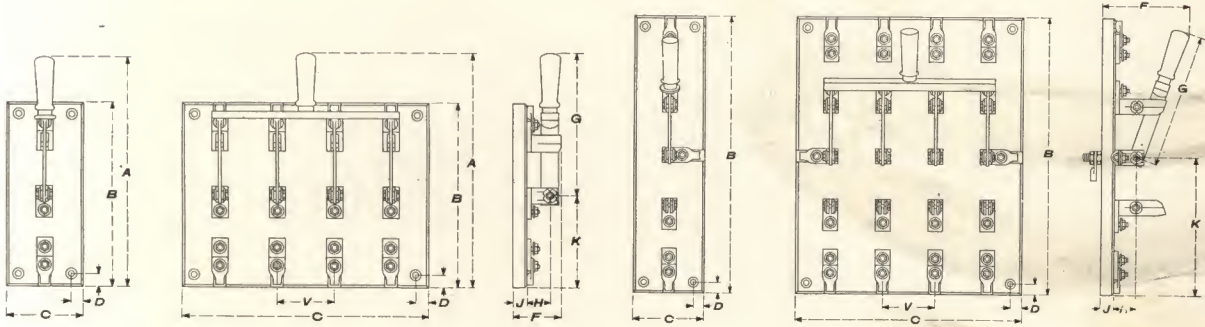
LEVER SWITCHES (Continued)

TYPE L, FORM D-12, FRONT CONNECTED ON SLATE BASES, WITH OPEN LINK FUSE CONNECTIONS, 250 VOLTS

DIMENSIONS

SINGLE THROW

DOUBLE THROW



SINGLE-POLE

SINGLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Amp. Cap.	Cat. No.	B	C	D	F	G	H	J	K	V
30	41672	8 $\frac{1}{2}$	6 $\frac{3}{4}$	2 $\frac{1}{2}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$		30	41676	11	2 $\frac{1}{2}$	7 $\frac{1}{8}$	3 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	5 $\frac{1}{2}$	
60	41680	10 $\frac{1}{2}$	8 $\frac{1}{2}$	3	7 $\frac{1}{8}$	2 $\frac{1}{8}$	5 $\frac{1}{8}$	4 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$		60	41684	14	3	3 $\frac{1}{8}$	5 $\frac{1}{8}$	5 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	7	
100	41688	12 $\frac{1}{2}$	10	4	7 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	5 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$		100	41692	16	4	4 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	8	
200	41696	15 $\frac{1}{2}$	14 $\frac{1}{4}$	5	7 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	6 $\frac{1}{8}$	1	1 $\frac{1}{8}$		200	41700	22	5	5 $\frac{1}{8}$	8 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1	11	
300	41704	18 $\frac{1}{2}$	18	4 $\frac{1}{2}$	7 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	7 $\frac{1}{8}$	1	9 $\frac{1}{8}$		300	41708	27	6 $\frac{1}{4}$	7 $\frac{1}{8}$	9 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{8}$	1	13 $\frac{1}{2}$	
400	41712	20 $\frac{1}{2}$	20 $\frac{1}{2}$	4 $\frac{1}{2}$	7 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	8 $\frac{1}{8}$	2	10 $\frac{1}{8}$		400	41716	30 $\frac{1}{2}$	7	7 $\frac{1}{8}$	10 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	15 $\frac{1}{2}$	
600	41720	23 $\frac{1}{2}$	23 $\frac{1}{2}$	5 $\frac{1}{4}$	1	5 $\frac{1}{4}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	12 $\frac{1}{8}$		600	41724	35	8	1	9 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	17 $\frac{1}{2}$	
800	41728	27 $\frac{1}{2}$	26	5 $\frac{1}{2}$	1	5 $\frac{1}{4}$	13 $\frac{1}{8}$	13 $\frac{1}{8}$	1 $\frac{1}{2}$	13 $\frac{1}{8}$		800	41732	38	9	1	9 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	19	

DOUBLE-POLE

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Amp. Cap.	Cat. No.	B	C	D	F	G	H	J	K	V
30	41673	8 $\frac{1}{2}$	6 $\frac{3}{4}$	4 $\frac{1}{4}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{8}$	30	41677	11	4 $\frac{1}{4}$	7 $\frac{1}{8}$	3 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	5 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41681	10 $\frac{1}{2}$	8 $\frac{1}{2}$	6	7 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	4 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	2 $\frac{1}{8}$	60	41685	14	6	3 $\frac{1}{8}$	6 $\frac{1}{8}$	6 $\frac{1}{8}$	1 $\frac{1}{8}$	1 $\frac{1}{8}$	7	2 $\frac{1}{8}$
100	41689	12 $\frac{1}{2}$	10	7	7 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	5 $\frac{1}{8}$	1	4 $\frac{1}{8}$	3 $\frac{1}{8}$	100	41693	16	7 $\frac{1}{2}$	3 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1	8	3 $\frac{1}{8}$
200	41697	15 $\frac{1}{2}$	14 $\frac{1}{4}$	8 $\frac{1}{2}$	7 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	6 $\frac{1}{8}$	1	9 $\frac{1}{8}$	4	200	41701	22	9 $\frac{1}{2}$	4 $\frac{1}{8}$	8 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1	11	4
300	41705	18 $\frac{1}{2}$	18	9	7 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	7 $\frac{1}{8}$	1	9 $\frac{1}{8}$	4	300	41709	27	12	5 $\frac{1}{8}$	9 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{8}$	1	13 $\frac{1}{2}$	4
400	41713	21 $\frac{1}{2}$	20 $\frac{1}{2}$	10	7 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	8 $\frac{1}{8}$	2	10 $\frac{1}{8}$	4	400	41717	30 $\frac{1}{2}$	14	6 $\frac{1}{8}$	10 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	15 $\frac{1}{2}$	4
600	41721	24 $\frac{1}{2}$	23 $\frac{1}{2}$	11	1	5 $\frac{1}{4}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	12 $\frac{1}{8}$	4	600	41725	35	16	1	9 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	17 $\frac{1}{2}$	4
800	41729	27 $\frac{1}{2}$	26	11	1	5 $\frac{1}{4}$	13 $\frac{1}{8}$	13 $\frac{1}{8}$	1 $\frac{1}{2}$	13 $\frac{1}{8}$	5	800	41733	38	17 $\frac{1}{2}$	1	9 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	19	5

TRIPLE-POLE

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Amp. Cap.	Cat. No.	B	C	D	F	G	H	J	K	V
30	41674	8 $\frac{1}{2}$	6 $\frac{3}{4}$	7	7 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{8}$	30	41678	11	7	7 $\frac{1}{8}$	3 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	5 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41682	10 $\frac{1}{2}$	8 $\frac{1}{2}$	9	7 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	4 $\frac{1}{8}$	1	4 $\frac{1}{8}$	2 $\frac{1}{8}$	60	41686	14	9	3 $\frac{1}{8}$	6 $\frac{1}{8}$	6 $\frac{1}{8}$	1 $\frac{1}{8}$	1	7	2 $\frac{1}{8}$
100	41690	12 $\frac{1}{2}$	10	10	7 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	5 $\frac{1}{8}$	1	4 $\frac{1}{8}$	3 $\frac{1}{8}$	100	41694	16	10	3 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1	8	3 $\frac{1}{8}$
200	41698	15 $\frac{1}{2}$	14 $\frac{1}{4}$	11 $\frac{1}{2}$	7 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	6 $\frac{1}{8}$	1	9 $\frac{1}{8}$	4	200	41702	22	13 $\frac{1}{2}$	5 $\frac{1}{8}$	8 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1	11	4
300	41706	19 $\frac{1}{2}$	18	12 $\frac{1}{2}$	7 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	7 $\frac{1}{8}$	1	9 $\frac{1}{8}$	4	300	41710	27	16	6 $\frac{1}{8}$	9 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{8}$	1	13 $\frac{1}{2}$	4
400	41714	21 $\frac{1}{2}$	20 $\frac{1}{2}$	13 $\frac{1}{2}$	7 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	8 $\frac{1}{8}$	2	10 $\frac{1}{8}$	4	400	41718	30 $\frac{1}{2}$	18	7 $\frac{1}{8}$	10 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	15 $\frac{1}{2}$	4
600	41722	24 $\frac{1}{2}$	23 $\frac{1}{2}$	15	1	5 $\frac{1}{4}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	12 $\frac{1}{8}$	4	600	41726	35	20 $\frac{1}{2}$	1	9 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	17 $\frac{1}{2}$	4
800	41730	27 $\frac{1}{2}$	26	16 $\frac{1}{2}$	1	5 $\frac{1}{4}$	13 $\frac{1}{8}$	13 $\frac{1}{8}$	1 $\frac{1}{2}$	13 $\frac{1}{8}$	5	800	41734	38	23	1	9 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	19	5

FOUR-POLE

FOUR-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Amp. Cap.	Cat. No.	B	C	D	F	G	H	J	K	V
30	41675	8 $\frac{1}{2}$	6 $\frac{3}{4}$	9 $\frac{1}{2}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{8}$	30	41679	11	9 $\frac{1}{2}$	7 $\frac{1}{8}$	3 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{1}{8}$	1 $\frac{1}{8}$	5 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41683	10 $\frac{1}{2}$	8 $\frac{1}{2}$	12	7 $\frac{1}{8}$	2 $\frac{1}{8}$	6 $\frac{1}{8}$	4 $\frac{1}{8}$	1	4 $\frac{1}{8}$	2 $\frac{1}{8}$	60	41687	14	12	3 $\frac{1}{8}$	6 $\frac{1}{8}$	6 $\frac{1}{8}$	1 $\frac{1}{8}$	1	7	2 $\frac{1}{8}$
100	41691	12 $\frac{1}{2}$	10	13	7 $\frac{1}{8}$	2 $\frac{1}{8}$	7 $\frac{1}{8}$	5 $\frac{1}{8}$	1	4 $\frac{1}{8}$	3 $\frac{1}{8}$	100	41695	16	13	3 $\frac{1}{8}$	7 $\frac{1}{8}$	7 $\frac{1}{8}$	1 $\frac{1}{8}$	1	8	3 $\frac{1}{8}$
200	41699	15 $\frac{1}{2}$	14 $\frac{1}{4}$	15	7 $\frac{1}{8}$	3 $\frac{1}{8}$	8 $\frac{1}{8}$	6 $\frac{1}{8}$	1	9 $\frac{1}{8}$	4	200	41703	22	17	5 $\frac{1}{8}$	8 $\frac{1}{8}$	8 $\frac{1}{8}$	1 $\frac{1}{8}$	1	11	4
300	41707	19 $\frac{1}{2}$	18	16 $\frac{1}{2}$	7 $\frac{1}{8}$	3 $\frac{1}{8}$	9 $\frac{1}{8}$	7 $\frac{1}{8}$	1	9 $\frac{1}{8}$	4	300	41711	27	20	6 $\frac{1}{8}$	9 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{8}$	1	13 $\frac{1}{2}$	4
400	41715	21 $\frac{1}{2}$	20 $\frac{1}{2}$	17 $\frac{1}{2}$	7 $\frac{1}{8}$	4 $\frac{1}{8}$	10 $\frac{1}{8}$	8 $\frac{1}{8}$	2	10 $\frac{1}{8}$	4	400	41719	30 $\frac{1}{2}$	22 $\frac{1}{2}$	7 $\frac{1}{8}$	10 $\frac{1}{8}$	10 $\frac{1}{8}$	2	1 $\frac{1}{8}$	15 $\frac{1}{2}$	4
600	41723	24 $\frac{1}{2}$	23 $\frac{1}{2}$	20	1	5 $\frac{1}{4}$	11 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	12 $\frac{1}{8}$	4	600	41727	35	25 $\frac{1}{2}$	1	9 $\frac{1}{8}$	11 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	17 $\frac{1}{2}$	4
800	41731	27 $\frac{1}{2}$	26	22	1	5 $\frac{1}{4}$	13 $\frac{1}{8}$	13 $\frac{1}{8}$	1 $\frac{1}{2}$	13 $\frac{1}{8}$	5	800	41735	38	28	1	9 $\frac{1}{8}$	13 $\frac{1}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	19	5

For REFERENCE ONLY.

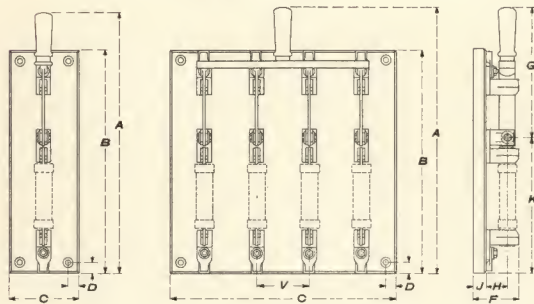
AIR BREAK SWITCHES

LEVER SWITCHES (Continued)

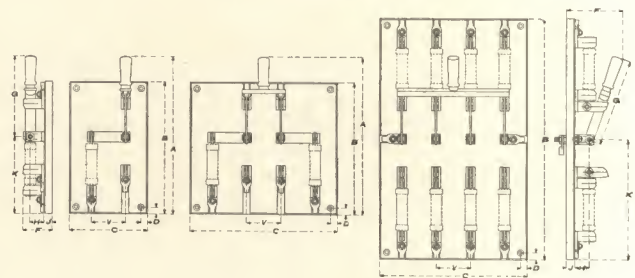
TYPE L, FORM D-12, FRONT CONNECTED ON SLATE BASES, WITH NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CONNECTIONS, 250 VOLTS

DIMENSIONS

SINGLE THROW



DOUBLE THROW



SINGLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41792	8 $\frac{5}{16}$	6 $\frac{3}{4}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	1 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	
60	41796	10 $\frac{1}{16}$	9 $\frac{1}{4}$	3	7 $\frac{1}{16}$	2 $\frac{1}{2}$	5 $\frac{1}{8}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	5 $\frac{1}{8}$	
100	41800	15 $\frac{1}{16}$	13 $\frac{1}{4}$	4	7 $\frac{1}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	1 $\frac{1}{2}$	1	8 $\frac{1}{16}$	
200	41804	19 $\frac{1}{16}$	18	4	7 $\frac{1}{16}$	2 $\frac{1}{2}$	8 $\frac{1}{16}$	1 $\frac{1}{2}$	1	10 $\frac{1}{16}$	
400	41808	24 $\frac{1}{16}$	24	4 $\frac{1}{2}$	1	4 $\frac{1}{2}$	10	2	1 $\frac{1}{2}$	14 $\frac{1}{16}$	
600	41812	28 $\frac{1}{16}$	28 $\frac{1}{4}$	5 $\frac{1}{2}$	1	5 $\frac{1}{2}$	11 $\frac{1}{16}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	17 $\frac{1}{16}$	

SINGLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41748	7 $\frac{1}{16}$	6 $\frac{1}{2}$	4 $\frac{1}{4}$	7 $\frac{1}{16}$	1 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41756	10 $\frac{1}{16}$	9	6	7 $\frac{1}{16}$	2 $\frac{1}{2}$	5 $\frac{1}{8}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$	4 $\frac{1}{2}$	2 $\frac{1}{8}$
100	41764	14 $\frac{1}{16}$	12	7	7 $\frac{1}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	6 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{8}$
200	41772	17 $\frac{1}{16}$	16	8	7 $\frac{1}{16}$	2 $\frac{1}{2}$	8 $\frac{1}{16}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	9 $\frac{1}{2}$	3 $\frac{1}{8}$
400	41780	21 $\frac{1}{16}$	21 $\frac{1}{2}$	9	7 $\frac{1}{16}$	2 $\frac{1}{2}$	10 $\frac{1}{16}$	8 $\frac{1}{2}$	1 $\frac{1}{2}$	11 $\frac{1}{16}$	4 $\frac{1}{8}$
600	41788	25 $\frac{1}{16}$	25 $\frac{1}{2}$	10	1	5 $\frac{1}{2}$	11 $\frac{1}{16}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{16}$	4 $\frac{1}{8}$

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41793	8 $\frac{5}{16}$	6 $\frac{3}{4}$	4 $\frac{1}{4}$	7 $\frac{1}{16}$	1 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41797	11 $\frac{1}{16}$	9 $\frac{1}{4}$	6	7 $\frac{1}{16}$	2 $\frac{1}{2}$	6 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	5 $\frac{1}{8}$	2 $\frac{1}{8}$
100	41801	15 $\frac{1}{16}$	13 $\frac{1}{4}$	7	7 $\frac{1}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	1 $\frac{1}{2}$	1	8 $\frac{1}{16}$	3 $\frac{1}{8}$
200	41805	19 $\frac{1}{16}$	18	8	7 $\frac{1}{16}$	2 $\frac{1}{2}$	8 $\frac{1}{16}$	1 $\frac{1}{2}$	1	10 $\frac{1}{16}$	3 $\frac{1}{8}$
400	41809	24 $\frac{1}{16}$	24	9	1	4 $\frac{1}{2}$	10 $\frac{1}{16}$	2	1 $\frac{1}{2}$	14 $\frac{1}{16}$	4 $\frac{1}{8}$
600	41813	29	28 $\frac{1}{4}$	10	1	5 $\frac{1}{2}$	11 $\frac{1}{16}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	17 $\frac{1}{16}$	4 $\frac{1}{8}$

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41749	7 $\frac{1}{16}$	6 $\frac{1}{2}$	9 $\frac{1}{4}$	7 $\frac{1}{16}$	1 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41757	10 $\frac{1}{16}$	9	12	7 $\frac{1}{16}$	2 $\frac{1}{2}$	6 $\frac{1}{16}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$	4 $\frac{1}{2}$	2 $\frac{1}{8}$
100	41765	14 $\frac{1}{16}$	12	13	7 $\frac{1}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	6 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{1}{8}$
200	41773	17 $\frac{1}{16}$	16	15 $\frac{1}{2}$	7 $\frac{1}{16}$	2 $\frac{1}{2}$	8 $\frac{1}{16}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	9 $\frac{1}{2}$	3 $\frac{1}{8}$
400	41781	22 $\frac{1}{16}$	21 $\frac{1}{2}$	17 $\frac{1}{2}$	7 $\frac{1}{16}$	2 $\frac{1}{2}$	10 $\frac{1}{16}$	8 $\frac{1}{2}$	1 $\frac{1}{2}$	11 $\frac{1}{16}$	4 $\frac{1}{8}$
600	41789	26 $\frac{1}{16}$	25 $\frac{1}{2}$	20	1	5 $\frac{1}{2}$	11 $\frac{1}{16}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{16}$	4 $\frac{1}{8}$

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41794	8 $\frac{5}{16}$	6 $\frac{3}{4}$	7	7 $\frac{1}{16}$	1 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41798	11 $\frac{1}{16}$	9 $\frac{1}{4}$	9	7 $\frac{1}{16}$	2 $\frac{1}{2}$	6 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	5 $\frac{1}{8}$	2 $\frac{1}{8}$
100	41802	15 $\frac{1}{16}$	13 $\frac{1}{4}$	10	7 $\frac{1}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	1 $\frac{1}{2}$	1	8 $\frac{1}{16}$	3 $\frac{1}{8}$
200	41806	19 $\frac{1}{16}$	18	11 $\frac{1}{2}$	7 $\frac{1}{16}$	2 $\frac{1}{2}$	8 $\frac{1}{16}$	1 $\frac{1}{2}$	1	10 $\frac{1}{16}$	3 $\frac{1}{8}$
400	41810	24 $\frac{1}{16}$	24	13 $\frac{1}{2}$	1	4 $\frac{1}{2}$	10 $\frac{1}{16}$	2	1 $\frac{1}{2}$	14 $\frac{1}{16}$	4 $\frac{1}{8}$
600	41814	29	28 $\frac{1}{4}$	15	1	5 $\frac{1}{2}$	11 $\frac{1}{16}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	17 $\frac{1}{16}$	4 $\frac{1}{8}$

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41750	11	7	9 $\frac{1}{4}$	7 $\frac{1}{16}$	1 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41758	15 $\frac{1}{16}$	9	12	7 $\frac{1}{16}$	2 $\frac{1}{2}$	6 $\frac{1}{16}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$	5 $\frac{1}{8}$	2 $\frac{1}{8}$
100	41766	22	10	13	7 $\frac{1}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	6 $\frac{1}{2}$	1 $\frac{1}{2}$	8 $\frac{1}{16}$	3 $\frac{1}{8}$
200	41774	28 $\frac{1}{16}$	13 $\frac{1}{2}$	15 $\frac{1}{2}$	7 $\frac{1}{16}$	2 $\frac{1}{2}$	8 $\frac{1}{16}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	10 $\frac{1}{16}$	3 $\frac{1}{8}$
400	41782	36 $\frac{1}{16}$	18	18	7 $\frac{1}{16}$	2 $\frac{1}{2}$	10 $\frac{1}{16}$	8 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{16}$	4 $\frac{1}{8}$
600	41790	43	20 $\frac{1}{2}$	20 $\frac{1}{2}$	1	5 $\frac{1}{2}$	11 $\frac{1}{16}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	17 $\frac{1}{16}$	4 $\frac{1}{8}$

FOUR-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41795	8 $\frac{5}{16}$	6 $\frac{3}{4}$	9 $\frac{1}{4}$	7 $\frac{1}{16}$	1 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41799	11 $\frac{1}{16}$	9 $\frac{1}{4}$	12	7 $\frac{1}{16}$	2 $\frac{1}{2}$	6 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	5 $\frac{1}{8}$	2 $\frac{1}{8}$
100	41803	15 $\frac{1}{16}$	13 $\frac{1}{4}$	13	7 $\frac{1}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	1 $\frac{1}{2}$	1	8 $\frac{1}{16}$	3 $\frac{1}{8}$
200	41807	19 $\frac{1}{16}$	18	15	7 $\frac{1}{16}$	2 $\frac{1}{2}$	8 $\frac{1}{16}$	1 $\frac{1}{2}$	1	10 $\frac{1}{16}$	3 $\frac{1}{8}$
400	41811	24 $\frac{1}{16}$	24	17 $\frac{1}{2}$	1	4 $\frac{1}{2}$	10 $\frac{1}{16}$	2	1 $\frac{1}{2}$	14 $\frac{1}{16}$	4 $\frac{1}{8}$
600	41815	29	28 $\frac{1}{4}$	20	1	5 $\frac{1}{2}$	11 $\frac{1}{16}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	17 $\frac{1}{16}$	4 $\frac{1}{8}$

FOUR-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41751	11	9 $\frac{1}{4}$	9 $\frac{1}{4}$	7 $\frac{1}{16}$	1 $\frac{1}{8}$	4 $\frac{1}{16}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	2 $\frac{1}{8}$
60	41759	15 $\frac{1}{16}$	12	12	7 $\frac{1}{16}$	2 $\frac{1}{2}$	6 $\frac{1}{16}$	4 $\frac{1}{2}$	1 $\frac{1}{2}$	5 $\frac{1}{8}$	2 $\frac{1}{8}$
100	41767	22	13	13	7 $\frac{1}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{16}$	6 $\frac{1}{2}$	1 $\frac{1}{2}$	8 $\frac{1}{16}$	3 $\frac{1}{8}$
200	41775	28 $\frac{1}{16}$	17	15 $\frac{1}{2}$	7 $\frac{1}{16}$	2 $\frac{1}{2}$	8 $\frac{1}{16}$	7 $\frac{1}{2}$	1 $\frac{1}{2}$	10 $\frac{1}{16}$	3 $\frac{1}{8}$
400	41783	36 $\frac{1}{16}$	18	18	7 $\frac{1}{16}$	2 $\frac{1}{2}$	10 $\frac{1}{16}$	8 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{16}$	4 $\frac{1}{8}$
600	41791	43	25 $\frac{1}{2}$	25 $\frac{1}{2}$	1	5 $\frac{1}{2}$	11 $\frac{1}{16}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	17 $\frac{1}{16}$	4 $\frac{1}{8}$

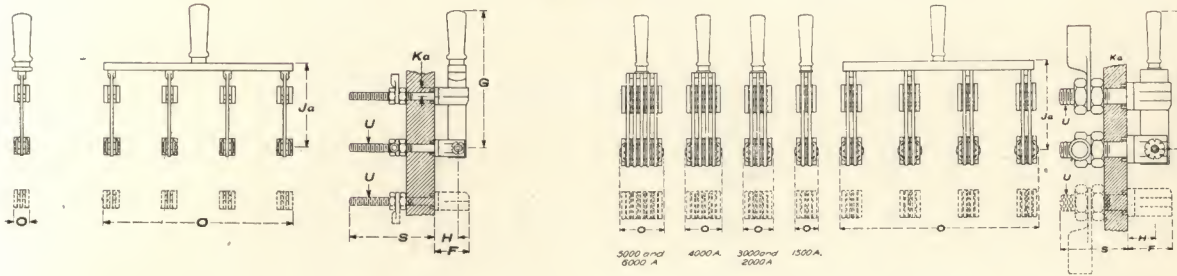
For REFERENCE ONLY.

AIR BREAK SWITCHES

LEVER SWITCHES (Continued)

TYPE L, FORM D-12, SINGLE- AND DOUBLE-THROW, BACK CONNECTED
WITHOUT FUSE CONNECTIONS, 250 VOLTS

DIMENSIONS



SINGLE-POLE

SINGLE-POLE

Amp. Cap.	CAT. NO.		F	G	H	O	S	U	Ja	Amp. Cap.	CAT. NO.		F	G	H	O	S	U	Ja
	Single Throw	Double Throw									Single Throw	Double Throw							
30	41816	41820	1 1/8	4 1/8	3 1/8	3 1/8	3	1 1/8 — 18 thd	3 1/8	1500	41896	41900	4 1/8	13 1/8	2 1/8	2 1/8	5 1/8	1 1/8 — 12 thd	
60	41824	41828	1 1/8	5 1/8	3 1/8	3 1/8	3	1 1/8 — 18 thd	4 1/8	2000	41904	41908	4 1/8	15 1/8	2 1/8	3 1/8	7 1/8	1 1/8 — 12 thd	
100	41832	41836	1 1/8	7 1/8	3 1/8	3 1/8	3	1 1/8 — 16 thd	4 1/8	3000	41912	41915	6 1/8	17 1/8	4	3 1/8	7 1/8	2 — 12 thd	
200	41840	41844	2 1/8	8 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 13 thd	5 1/8	4000	41918	41920	6 1/8	17 1/8	4	4 1/8	7 1/8	2 1/8 — 12 thd	
300	41848	41852	2 1/8	9 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 11 thd	6 1/8	5000	41922	41923	6 1/8	17 1/8	4	5 1/8	10	2 1/8 — 12 thd	
400	41856	41860	3 1/8	10	2	3 1/8	4 1/8	1 — 12 thd	6 1/8	6000	41924	41925	6 1/8	17 1/8	4	5 1/8	10	3 — 12 thd	
600	41864	41868	4	11 1/8	2 1/8	3 1/8	4 1/8	1 — 12 thd	7 1/8										
800	41872	41876	4 1/8	13 1/8	2 1/8	3 1/8	4 1/8	1 1/8 — 12 thd	8 1/8										
1000	41880	41884	5 1/8	14	3 1/8	3 1/8	4 1/8	1 1/8 — 12 thd	9 1/8										
1200	41888	41892	6 1/8	15 1/8	4	3 1/8	5 1/8	1 1/8 — 12 thd	10 1/8										

DOUBLE-POLE

DOUBLE-POLE

Amp. Cap.	CAT. NO.		F	G	H	O	S	U	Ja	Amp. Cap.	CAT. NO.		F	G	H	O	S	U	Ja
	Single Throw	Double Throw									Single Throw	Double Throw							
30	41817	41821	1 1/8	4 1/8	3 1/8	3 1/8	3	1 1/8 — 18 thd	3 1/8	1500	41897	41901	4 1/8	13 1/8	2 1/8	2 1/8	5 1/8	1 1/8 — 12 thd	8 1/8
60	41825	41829	1 1/8	5 1/8	3 1/8	3 1/8	3	1 1/8 — 18 thd	4 1/8	2000	41905	41909	4 1/8	15 1/8	2 1/8	3 1/8	7 1/8	1 1/8 — 12 thd	9
100	41833	41837	1 1/8	7 1/8	3 1/8	3 1/8	3	1 1/8 — 16 thd	4 1/8	3000	41913	41916	6 1/8	17 1/8	4	10 1/8	7 1/8	2 — 12 thd	10 1/8
200	41841	41845	2 1/8	8 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 13 thd	5 1/8	4000	41919	41921	6 1/8	17 1/8	4	12 1/8	7 1/8	2 1/8 — 12 thd	10 1/8
300	41849	41853	2 1/8	9 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 11 thd	6 1/8										
400	41857	41861	3 1/8	10 1/8	2	3 1/8	4 1/8	1 — 12 thd	6 1/8										
600	41865	41869	4	11 1/8	2 1/8	3 1/8	4 1/8	1 — 12 thd	7 1/8										
800	41873	41877	4 1/8	13 1/8	2 1/8	3 1/8	4 1/8	1 1/8 — 12 thd	8 1/8										
1000	41881	41885	5 1/8	14 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 12 thd	9 1/8										
1200	41889	41893	6 1/8	15 1/8	4	3 1/8	5 1/8	1 1/8 — 12 thd	10 1/8										

TRIPLE-POLE

TRIPLE-POLE

Amp. Cap.	CAT. NO.		F	G	H	O	S	U	Ja	Amp. Cap.	CAT. NO.		F	G	H	O	S	U	Ja
	Single Throw	Double Throw									Single Throw	Double Throw							
30	41818	41822	1 1/8	4 1/8	3 1/8	3 1/8	3	1 1/8 — 18 thd	3 1/8	1500	41898	41902	4 1/8	13 1/8	2 1/8	14 1/8	5 1/8	1 1/8 — 12 thd	8 1/8
60	41826	41830	1 1/8	5 1/8	3 1/8	3 1/8	3	1 1/8 — 18 thd	4 1/8	2000	41906	41910	4 1/8	15 1/8	2 1/8	16 1/8	5 1/8	1 1/8 — 12 thd	9
100	41834	41838	1 1/8	7 1/8	3 1/8	3 1/8	3	1 1/8 — 16 thd	4 1/8	3000	41914	41917	6 1/8	17 1/8	4	16 1/8	7 1/8	2 — 12 thd	10 1/8
200	41842	41846	2 1/8	8 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 13 thd	5 1/8										
300	41850	41854	2 1/8	9 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 11 thd	6 1/8										
400	41858	41862	3 1/8	10 1/8	2	3 1/8	4 1/8	1 — 12 thd	6 1/8										
600	41866	41870	4	11 1/8	2 1/8	3 1/8	4 1/8	1 — 12 thd	7 1/8										
800	41874	41878	4 1/8	13 1/8	2 1/8	3 1/8	4 1/8	1 1/8 — 12 thd	8 1/8										
1000	41882	41886	5 1/8	14 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 12 thd	9 1/8										
1200	41890	41894	6 1/8	15 1/8	4	3 1/8	5 1/8	1 1/8 — 12 thd	10 1/8										

FOUR-POLE

FOUR-POLE

Amp. Cap.	CAT. NO.		F	G	H	O	S	U	Ja	Amp. Cap.	CAT. NO.		F	G	H	O	S	U	Ja
	Single Throw	Double Throw									Single Throw	Double Throw							
30	41819	41823	1 1/8	4 1/8	3 1/8	3 1/8	3	1 1/8 — 18 thd	3 1/8	1500	41899	41903	4 1/8	13 1/8	2 1/8	19 1/8	5 1/8	1 1/8 — 12 thd	8 1/8
60	41827	41831	1 1/8	5 1/8	3 1/8	3 1/8	3	1 1/8 — 18 thd	4 1/8	2000	41907	41911	4 1/8	15 1/8	2 1/8	23	5 1/8	1 1/8 — 12 thd	9
100	41835	41839	1 1/8	7 1/8	3 1/8	3 1/8	3	1 1/8 — 16 thd	4 1/8										
200	41843	41847	2 1/8	8 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 13 thd	5 1/8										
300	41851	41855	2 1/8	9 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 11 thd	6 1/8										
400	41859	41863	3 1/8	10 1/8	2	3 1/8	4 1/8	1 — 12 thd	6 1/8										
600	41867	41871	4	11 1/8	2 1/8	3 1/8	4 1/8	1 — 12 thd	7 1/8										
800	41875	41879	4 1/8	13 1/8	2 1/8	3 1/8	4 1/8	1 1/8 — 12 thd	8 1/8										
1000	41883	41887	5 1/8	14 1/8	3 1/8	3 1/8	4 1/8	1 1/8 — 12 thd	9 1/8										
1200	41891	41895	6 1/8	15 1/8	4	3 1/8	5 1/8	1 1/8 — 12 thd	10 1/8										

For REFERENCE ONLY.

100 amp. and above are approved for use on 500 volt alternating current circuits.

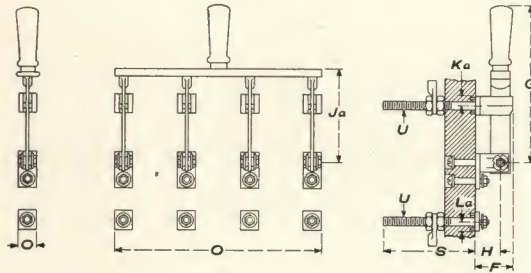
AIR BREAK SWITCHES

LEVER SWITCHES (Continued)

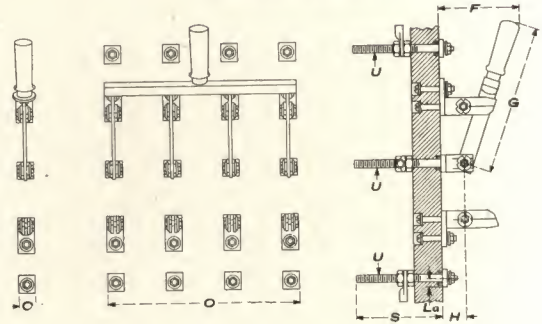
TYPE L, FORM D-12, BACK CONNECTED, WITH OPEN LINK FUSE CONNECTIONS, 250 VOLTS

DIMENSIONS

SINGLE THROW



DOUBLE THROW



SINGLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U	Ja
30	41926	1 1/8	4 1/8	3 1/2	1 1/2	3	5/16—18 thd	
60	41934	1 1/8	5 1/8	3 1/2	1 1/2	3	5/16—18 thd	
100	41942	1 1/8	7 1/8	1 1/2	1 1/2	3	5/16—16 thd	
200	41950	2 1/8	8 1/8	1 1/2	1 1/2	4 1/2	5/16—13 thd	
300	41958	2 1/8	9 1/8	1 1/2	1 1/2	4 1/2	5/16—11 thd	
400	41966	3 1/8	10	2	1 1/2	4 1/2	5/16—12 thd	
600	41974	4	11 1/8	2 1/2	2	4 1/2	1—12 thd	
800	41982	4 1/2	13 1/8	2 1/2	2 1/2	4 1/2	1 1/8—12 thd	

SINGLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U
30	41930	2 3/8	4 1/8	3 1/2	1 1/2	3	5/16—18 thd
60	41938	3 1/8	5 1/8	3 1/2	1 1/2	3	5/16—18 thd
100	41946	3 1/8	7 1/8	1 1/2	1 1/2	3	5/16—16 thd
200	41954	4 1/8	8 1/8	1 1/2	1 1/2	4 1/2	5/16—13 thd
300	41962	5 1/8	9 1/8	1 1/2	1 1/2	4 1/2	5/16—11 thd
400	41970	6 1/8	10	2	1 1/2	4 1/2	5/16—12 thd
600	41978	8 1/8	11 1/8	2 1/2	2	4 1/2	1—12 thd
800	41986	8 1/2	13 1/8	2 1/2	2 1/2	4 1/2	1 1/8—12 thd

DOUBLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U	Ja
30	41927	1 1/8	4 1/8	3 1/2	2 1/2	3	5/16—18 thd	3 1/2
60	41935	1 1/8	6 1/8	3 1/2	2 1/2	3	5/16—18 thd	4 1/2
100	41943	1 1/8	7 1/8	1 1/2	3 1/2	3	5/16—16 thd	4 1/2
200	41951	2 1/8	8 1/8	1 1/2	4 1/2	4 1/2	5/16—13 thd	5 1/2
300	41959	2 1/8	9 1/8	1 1/2	5 1/2	4 1/2	5/16—11 thd	6 1/2
400	41967	3 1/8	10 1/8	2	5 1/2	4 1/2	5/16—12 thd	6 1/2
600	41975	4	11 1/8	2 1/2	6 1/2	4 1/2	1—12 thd	7 1/2
800	41983	4 1/2	13 1/8	2 1/2	7 1/2	4 1/2	1 1/8—12 thd	8 1/2

DOUBLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U
30	41931	2 3/8	4 1/8	3 1/2	2 1/2	3	5/16—18 thd
60	41939	3 1/8	6 1/8	3 1/2	2 1/2	3	5/16—18 thd
100	41947	3 1/8	7 1/8	1 1/2	3 1/2	3	5/16—16 thd
200	41955	4 1/8	8 1/8	1 1/2	4 1/2	4 1/2	5/16—13 thd
300	41963	5 1/8	9 1/8	1 1/2	5 1/2	4 1/2	5/16—11 thd
400	41971	6 1/8	10 1/8	2	5 1/2	4 1/2	5/16—12 thd
600	41979	8 1/8	11 1/8	2 1/2	6 1/2	4 1/2	1—12 thd
800	41987	8 1/2	13 1/8	2 1/2	7 1/2	4 1/2	1 1/8—12 thd

TRIPLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U	Ja
30	41928	1 1/8	4 1/8	3 1/2	5 1/2	3	5/16—18 thd	3 1/2
60	41936	1 1/8	6 1/8	3 1/2	6 1/2	3	5/16—18 thd	4 1/2
100	41944	1 1/8	7 1/8	1 1/2	6 1/2	3	5/16—16 thd	4 1/2
200	41952	2 1/8	8 1/8	1 1/2	8 1/2	4 1/2	5/16—13 thd	5 1/2
300	41960	2 1/8	9 1/8	1 1/2	9 1/2	4 1/2	5/16—11 thd	6 1/2
400	41968	3 1/8	10 1/8	2	10 1/2	4 1/2	5/16—12 thd	6 1/2
600	41976	4	11 1/8	2 1/2	11 1/2	4 1/2	1—12 thd	7 1/2
800	41984	4 1/2	13 1/8	2 1/2	13	4 1/2	1 1/8—12 thd	8 1/2

TRIPLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U
30	41932	2 3/8	4 1/8	3 1/2	5 1/2	3	5/16—18 thd
60	41940	3 1/8	6 1/8	3 1/2	6 1/2	3	5/16—18 thd
100	41948	3 1/8	7 1/8	1 1/2	6 1/2	3	5/16—16 thd
200	41956	4 1/8	8 1/8	1 1/2	8 1/2	4 1/2	5/16—13 thd
300	41964	5 1/8	9 1/8	1 1/2	9 1/2	4 1/2	5/16—11 thd
400	41972	6 1/8	10 1/8	2	10 1/2	4 1/2	5/16—12 thd
600	41980	8 1/8	11 1/8	2 1/2	11 1/2	4 1/2	1—12 thd
800	41988	8 1/2	13 1/8	2 1/2	13	4 1/2	1 1/8—12 thd

FOUR-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U	Ja
30	41929	1 1/8	4 1/8	3 1/2	7 1/2	3	5/16—18 thd	3 1/2
60	41937	1 1/8	6 1/8	3 1/2	9 1/2	3	5/16—18 thd	4 1/2
100	41945	1 1/8	7 1/8	1 1/2	9 1/2	3	5/16—16 thd	4 1/2
200	41953	2 1/8	8 1/8	1 1/2	12 1/2	4 1/2	5/16—13 thd	5 1/2
300	41961	2 1/8	9 1/8	1 1/2	13 1/2	4 1/2	5/16—11 thd	6 1/2
400	41969	3 1/8	10 1/8	2	14 1/2	4 1/2	5/16—12 thd	6 1/2
600	41977	4	11 1/8	2 1/2	16 1/2	4 1/2	1—12 thd	7 1/2
800	41985	4 1/2	13 1/8	2 1/2	18 1/2	4 1/2	1 1/8—12 thd	8 1/2

FOUR-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U
30	41933	2 3/8	4 1/8	3 1/2	7 1/2	3	5/16—18 thd
60	41941	3 1/8	6 1/8	3 1/2	9 1/2	3	5/16—18 thd
100	41949	3 1/8	7 1/8	1 1/2	9 1/2	3	5/16—16 thd
200	41957	4 1/8	8 1/8	1 1/2	12 1/2	4 1/2	5/16—13 thd
300	41965	5 1/8	9 1/8	1 1/2	13 1/2	4 1/2	5/16—11 thd
400	41973	6 1/8	10 1/8	2	14 1/2	4 1/2	5/16—12 thd
600	41981	8 1/8	11 1/8	2 1/2	16 1/2	4 1/2	1—12 thd
800	41989	8 1/2	13 1/8	2 1/2	18 1/2	4 1/2	1 1/8—12 thd

For REFERENCE ONLY.

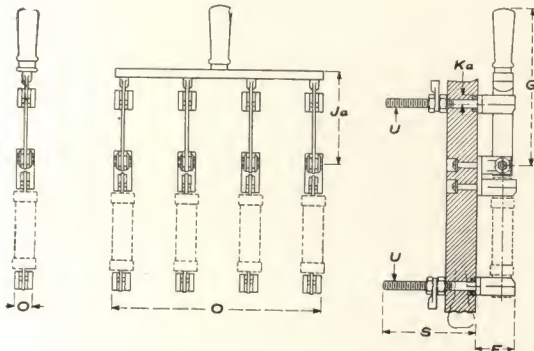
AIR BREAK SWITCHES

LEVER SWITCHES (Concluded)

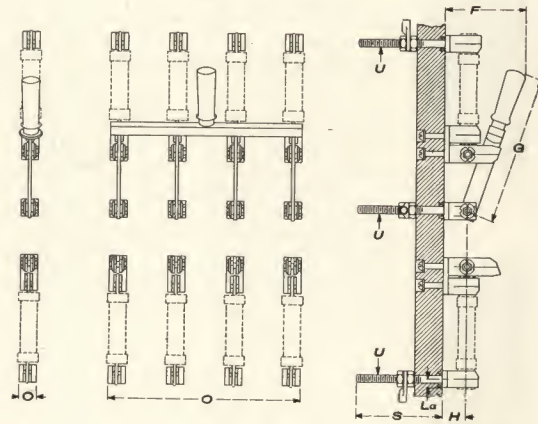
TYPE L, FORM D-12, BACK CONNECTED WITH NATIONAL ELECTRICAL CODE STANDARD
ENCLOSED FUSE CONNECTIONS, 250 VOLTS

DIMENSIONS

SINGLE THROW



DOUBLE THROW



SINGLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U	Ja
30	42046	1 1/16	4 9/16	3 3/8	2 1/4	3	5/16-18 thd	
60	42050	1 1/8	5 1/8	3 1/2	2 3/8	3	5/16-18 thd	
100	42054	1 1/4	5 7/8	1 1/4	3 1/8	3	5/16-16 thd	
200	42058	2 1/8	8 1/8	1 1/8	4 1/8	4 1/2	5/16-13 thd	
400	42062	3 3/8	10 5/8	2	5 1/8	4 1/2	5/16-12 thd	
600	42066	4	11 5/8	2 1/2	6 1/8	4 1/2	5/16-12 thd	

SINGLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U
30	41994	2 5/8	4 1/8	3 3/8	2 1/4	3	5/16-18 thd
60	42002	3 1/8	5 1/8	3 1/2	2 3/8	3	5/16-18 thd
100	42010	3 1/2	7 1/8	1 1/4	3 1/8	3	5/16-16 thd
200	42018	4 1/2	8 1/8	1 1/8	4 1/8	4 1/2	5/16-13 thd
400	42026	6 1/8	10 5/8	2	5 1/8	4 1/2	5/16-12 thd
600	42034	8 1/4	11 5/8	2 1/2	6 1/8	4 1/2	5/16-12 thd

DOUBLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U	Ja
30	42047	1 1/16	4 1/8	3 3/8	2 1/4	3	5/16-18 thd	3 1/4
60	42051	1 1/8	5 1/8	3 1/2	2 3/8	3	5/16-18 thd	4 1/8
100	42055	1 1/4	5 7/8	1 1/4	3 1/8	3	5/16-16 thd	4 7/8
200	42059	2 1/8	8 1/8	1 1/8	4 1/8	4 1/2	5/16-13 thd	5 3/8
400	42063	3 3/8	10 5/8	2	5 1/8	4 1/2	5/16-12 thd	6 1/8
600	42067	4	11 5/8	2 1/2	6 1/8	4 1/2	5/16-12 thd	7 1/4

DOUBLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U
30	41995	2 5/8	4 1/8	3 3/8	2 1/4	3	5/16-18 thd
60	42003	3 1/8	5 1/8	3 1/2	2 3/8	3	5/16-18 thd
100	42011	3 1/2	7 1/8	1 1/4	3 1/8	3	5/16-16 thd
200	42019	4 1/2	8 1/8	1 1/8	4 1/8	4 1/2	5/16-13 thd
400	42027	6 1/8	10 5/8	2	5 1/8	4 1/2	5/16-12 thd
600	42035	8 1/4	11 5/8	2 1/2	6 1/8	4 1/2	5/16-12 thd

TRIPLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U	Ja
30	42048	1 1/16	4 1/8	3 3/8	5 1/4	3	5/16-18 thd	3 1/4
60	42052	1 1/8	5 1/8	3 1/2	6 1/8	3	5/16-18 thd	4 1/8
100	42056	1 1/4	5 7/8	1 1/4	6 3/8	3	5/16-16 thd	4 7/8
200	42060	2 1/8	8 1/8	1 1/8	8 1/8	4 1/2	5/16-13 thd	5 3/8
400	42064	3 3/8	10 5/8	2	10 1/8	4 1/2	5/16-12 thd	6 1/8
600	42068	4	11 5/8	2 1/2	11 1/4	4 1/2	5/16-12 thd	7 1/4

TRIPLE-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U
30	41996	2 5/8	4 1/8	3 3/8	5 1/4	3	5/16-18 thd
60	42004	3 1/8	5 1/8	3 1/2	6 1/8	3	5/16-18 thd
100	42012	3 1/2	7 1/8	1 1/4	6 3/8	3	5/16-16 thd
200	42020	4 1/2	8 1/8	1 1/8	8 1/8	4 1/2	5/16-13 thd
400	42028	6 1/8	10 5/8	2	10 1/8	4 1/2	5/16-12 thd
600	42036	8 1/4	11 5/8	2 1/2	11 1/4	4 1/2	5/16-12 thd

FOUR-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U	Ja
30	42049	1 1/16	4 1/8	3 3/8	7 9/16	3	5/16-18 thd	3 5/8
60	42053	1 1/8	5 1/8	3 1/2	9 1/16	3	5/16-18 thd	4 1/2
100	42057	1 1/4	5 7/8	1 1/4	9 1/8	3	5/16-16 thd	4 3/4
200	42061	2 1/8	8 1/8	1 1/8	12 1/8	4 1/2	5/16-13 thd	5 7/8
400	42065	3 3/8	10 5/8	2	14 3/8	4 1/2	5/16-12 thd	6 3/4
600	42069	4	11 5/8	2 1/2	16 3/8	4 1/2	5/16-12 thd	7 3/4

FOUR-POLE

Amp. Cap.	Cat. No.	F	G	H	O	S	U
30	41997	2 5/8	4 1/8	3 3/8	7 9/16	3	5/16-18 thd
60	42005	3 1/8	5 1/8	3 1/2	9 1/16	3	5/16-18 thd
100	42013	3 1/2	7 1/8	1 1/4	9 1/8	3	5/16-16 thd
200	42021	4 1/2	8 1/8	1 1/8	12 1/8	4 1/2	5/16-13 thd
400	42029	6 1/8	10 5/8	2	14 3/8	4 1/2	5/16-12 thd
600	42037	8 1/4	11 5/8	2 1/2	16 3/8	4 1/2	5/16-12 thd

For REFERENCE ONLY.

AIR BREAK SWITCHES

QUICK BREAK LEVER SWITCHES

TYPE Q, FORM C-2, 600 VOLTS, DIRECT CURRENT

Front connected quick break switches are mounted on natural black slate bases, and are made single or double throw, with one, two, three or four poles, both with and without fuse connections. The fuse connections are arranged for National Electrical Code Standard enclosed fuses in capacities of from 60 to 600 amperes inclusive. Front connected switches without fuse connections are made in capacities of from 60 to 80 amperes. 60 amp. switches with 30 ampere fuse connections can be supplied.

Back connected quick break switches for mounting on panels have no bases but are furnished with drilling templates. They are made with and without fuse connections, single and double throw, and with one, two, three or four poles. Barriers are used with the two-, three- and four-pole back connected switches. Back connected switches in capacities of from 60 to 6000 amperes are furnished with fuse connections arranged for National Electrical Code Standard enclosed fuses in capacities of from 60 to 600 amperes inclusive. Switches of 1500 ampere capacity, and above, have multiple blades.

For sizes of terminals furnished with each capacity of switch see pages 319 to 321. All back connected switches up to and including 100 amperes capacity are equipped with one terminal and two nuts on each stud. Above 100 amperes capacity and including 1200 amperes, two nuts are furnished on each stud and one terminal on each contact stud only, no terminals being supplied on the hinge studs. Above 1200 amperes two nuts per stud are furnished and no terminals. These may be ordered independently, from pages 319 to 321.

FINISH

Type Q, Form C-2 switches are furnished in two finishes, known as No. 1 and No. 2.

No. 1 FINISH.—All metal parts are dipped and lacquered. This finish is satisfactory for use in ordinary house work, factory or service installation.

No. 2 FINISH.—All metal parts are highly polished and heavily lacquered. This finish is standard for high grade installation and switchboard work.

PLACING ORDERS

Always order by catalogue number, specifying the finish desired.

When reference to finish is omitted, front connected switches will be furnished with No. 1, and back connected switches with No. 2 finish.



Cat. No. 39099



Cat. No. 39211



Cat. No.
39170



Cat. No.
39512

FRONT CONNECTED, MOUNTED ON SLATE BASES, WITHOUT BARRIERS OR FUSE CONNECTIONS

CAT. NO.				LIST PRICE				CAT. NO.				LIST PRICE			
Single-Throw	Double-Throw	Amp. Cap.	De-scription	Single-Throw		Double-Throw		Single-Throw	Double-Throw	Amp. Cap.	De-scription	Single-Throw		Double-Throw	
				Dipped	Buffed	Dipped	Buffed					Dipped	Buffed	Dipped	Buffed
39082	39086	60	S.P.	\$2.50	\$3.25	\$4.50	\$5.50	44997	45038	300	T. P.	\$21.00	\$26.00	\$32.00	\$40.00
39083	39087	60	D.P.	4.50	5.50	6.50	8.00	44998	45039	300	4 P.	32.00	40.00	46.00	59.00
39084	39088	60	T.P.	6.50	8.00	10.00	12.00	39106	39110	400	S.P.	12.00	15.00	19.00	24.00
39085	39089	60	4 P.	10.00	12.00	15.00	19.00	39107	39111	400	D.P.	19.00	24.00	28.00	35.00
39090	39094	100	S.P.	3.50	4.50	6.00	7.50	39108	39112	400	T.P.	28.00	35.00	44.00	54.00
39091	39095	100	D.P.	6.00	7.50	8.50	10.50	39109	39113	400	4 P.	44.00	54.00	60.00	76.00
39092	39096	100	T.P.	8.50	10.50	13.00	17.00	39114	39118	600	S.P.	18.00	23.00	28.00	35.00
39093	39097	100	4 P.	13.00	17.00	20.00	26.00	39115	39119	600	D.P.	28.00	35.00	44.00	54.00
39098	39102	200	S.P.	5.00	6.50	9.50	11.50	39116	39120	600	T.P.	44.00	54.00	66.00	80.00
39099	39103	200	D.P.	9.50	11.50	14.00	17.00	39117	39121	600	4 P.	66.00	80.00	95.00	116.00
39100	39104	200	T.P.	14.00	17.00	22.00	27.00	39122	39126	800	S.P.	26.00	33.00	42.00	52.00
39101	39105	200	4 P.	22.00	27.00	32.00	41.00	39123	39127	800	D.P.	42.00	52.00	62.00	76.00
44995	44999	300	S.P.	8.00	10.00	13.00	16.00	39124	39128	800	T.P.	62.00	76.00	96.00	116.00
44996	45037	300	D.P.	13.00	16.00	21.00	26.00	39125	39129	800	4 P.	96.00	116.00	152.00	184.00

FRONT CONNECTED, MOUNTED ON SLATE BASES, WITHOUT BARRIERS, WITH ENCLOSED FUSE CONNECTIONS

45100	39198	60	S.P.	\$5.00	\$6.50	\$7.50	\$9.50	45110	39216	200	T.P.	\$22.00	\$27.00	\$34.00	\$43.00
45101	39199	60	D.P.	7.50	9.50	11.50	14.00	45111	39217	200	4 P.	34.00	43.00	52.00	65.00
45102	39200	60	T.P.	11.50	14.00	17.50	22.00	45112	39222	400	S.P.	18.50	23.50	30.00	38.00
45103	39201	60	4 P.	17.50	22.00	27.00	33.00	45113	39223	400	D.P.	30.00	38.00	44.00	54.00
45104	39206	100	S.P.	6.50	8.00	10.00	12.00	45114	39224	400	T.P.	44.00	54.00	68.00	84.00
45105	39207	100	D.P.	10.00	12.00	15.00	19.00	45115	39225	400	4 P.	68.00	84.00	100.00	122.30
45106	39208	100	T.P.	15.00	19.00	23.00	29.00	45116	39230	600	S.P.	27.00	34.00	40.00	53.00
45107	39209	100	4 P.	23.00	29.00	36.00	45.00	45117	39231	600	D.P.	44.00	53.00	66.00	82.00
45108	39214	200	S.P.	9.50	11.50	15.00	19.00	45118	39232	600	T.P.	66.00	82.00	100.00	122.00
45109	39215	200	D.P.	15.00	19.00	22.00	27.00	45119	39233	600	4 P.	100.00	122.00	144.00	176.00

AIR BREAK SWITCHES

QUICK BREAK LEVER SWITCHES (Continued)

TYPE Q, FORM C-2, 600 VOLTS, DIRECT CURRENT

BACK CONNECTED, FOR MOUNTING ON PANELS, WITH BARRIERS, WITHOUT FUSE CONNECTIONS
BUFFED FINISH

CAT. NO.		Amp. Cap.	Description	LIST PRICE	
Single Throw	Double Throw			Single Throw	Double Throw
39138	39142	60	S. P.	\$3.50	\$6.00
39139	39143	60	D. P.	8.00	14.00
39140	39144	60	T. P.	14.00	20.00
39141	39145	60	4 P.	20.00	30.00
39146	39150	100	S. P.	4.50	7.50
39147	39151	100	D. P.	10.00	17.00
39148	39152	100	T. P.	17.00	25.00
39149	39153	100	4 P.	25.00	40.00
39154	39158	200	S. P.	7.00	12.00
39155	39159	200	D. P.	15.00	24.00
39156	39160	200	T. P.	24.00	34.00
39157	39161	200	4 P.	34.00	54.00
45048	45052	300	S. P.	10.00	17.00
45049	45053	300	D. P.	21.00	31.00
45050	45054	300	T. P.	31.00	46.00
45051	45055	300	4 P.	46.00	70.00
39162	39166	400	S. P.	14.00	24.00
39163	39167	400	D. P.	30.00	42.00
39164	39168	400	T. P.	42.00	62.00
39165	39169	400	4 P.	62.00	90.00
39170	39174	600	S. P.	20.00	33.00
39171	39175	600	D. P.	40.00	56.00
39172	39176	600	T. P.	56.00	80.00
39173	39177	600	4 P.	80.00	116.00
39178	39182	800	S. P.	30.00	50.00
39179	39183	800	D. P.	58.00	78.00
39180	39184	800	T. P.	78.00	105.00
39181	39185	800	4 P.	105.00	145.00
39494	39497	1000	S. P.	44.00	70.00
39495	39498	1000	D. P.	82.00	108.00
39496	39499	1000	T. P.	108.00	—
45056	45057	1000	4 P.	—	—
45058	45062	1200	S. P.	54.00	84.00
45059	45063	1200	D. P.	105.00	145.00
45060	45064	1200	T. P.	145.00	—
45061	45065	1200	4 P.	—	—
39500	39503	1500	S. P.	72.00	113.00
39501	39504	1500	D. P.	140.00	190.00
39502	39505	1500	T. P.	190.00	—
45066	45067	1500	4 P.	—	—
39506	39509	2000	S. P.	98.00	145.00
39507	39510	2000	D. P.	185.00	270.00
39508	39511	2000	T. P.	270.00	—
45068	45069	2000	4 P.	—	—
45070	45074	3000	S. P.	144.00	200.00
45071	45075	3000	D. P.	250.00	350.00
45072	45076	3000	T. P.	—	—
45073	45077	3000	4 P.	—	—
39512	39513	4000	S. P.	182.00	252.00
45084	45085	5000	S. P.	224.00	304.00
45086	45087	6000	S. P.	272.00	360.00

BACK CONNECTED, FOR MOUNTING ON PANELS, WITH BARRIERS AND ENCLOSED FUSE CONNECTIONS
BUFFED FINISH

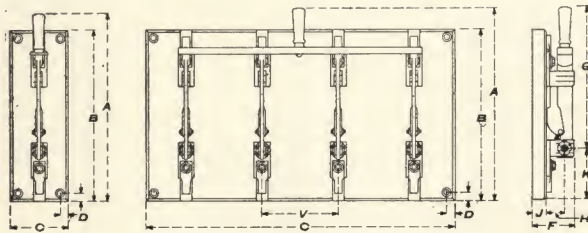
45124	39246	60	S. P.	\$4.50	\$7.50
45125	39247	60	D. P.	10.00	17.00
45126	39248	60	T. P.	17.00	25.00
45127	39249	60	4 P.	25.00	40.00
45128	39254	100	S. P.	7.00	12.00
45129	39255	100	D. P.	15.00	24.00
45130	39256	100	T. P.	24.00	38.00
45131	39257	100	4 P.	38.00	54.00
45132	39262	200	S. P.	10.00	17.00
45133	39263	200	D. P.	21.00	31.00
45134	39264	200	T. P.	31.00	46.00
45135	39265	200	4 P.	46.00	70.00
45136	39270	400	S. P.	20.00	34.00
45137	39271	400	D. P.	40.00	58.00
45138	39272	400	T. P.	58.00	80.00
45139	39273	400	4 P.	80.00	112.00
45140	39278	600	S. P.	30.00	50.00
45141	39279	600	D. P.	58.00	74.00
45142	39280	600	T. P.	74.00	110.00
45143	39281	600	4 P.	110.00	150.00

AIR BREAK SWITCHES

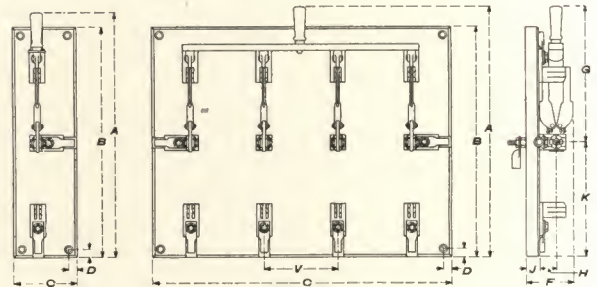
QUICK BREAK LEVER SWITCHES

DIMENSIONS OF TYPE Q, FORM C-2 LEVER SWITCHES, FRONT CONNECTED ON SLATE BASES WITHOUT FUSE CONNECTIONS, 600 VOLTS D.C.

SINGLE THROW



DOUBLE THROW



SINGLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
60	39082	9 $\frac{1}{2}$	8	3 $\frac{1}{2}$	$\frac{5}{8}$	2 $\frac{1}{2}$	7 $\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{2}$	
100	39090	11 $\frac{1}{2}$	9	4	$\frac{5}{8}$	2 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	1	2 $\frac{1}{2}$	
200	39098	13 $\frac{1}{2}$	12 $\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{5}{8}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	1	3 $\frac{1}{2}$	
300	44995	15 $\frac{1}{2}$	15	4 $\frac{1}{2}$	$\frac{5}{8}$	3 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$	1	4 $\frac{1}{2}$	
400	39106	17 $\frac{1}{2}$	17	4 $\frac{1}{2}$	$\frac{5}{8}$	4 $\frac{1}{2}$	12 $\frac{1}{2}$	2	1 $\frac{1}{2}$	5 $\frac{1}{2}$	
600	39114	20 $\frac{1}{2}$	20	5 $\frac{1}{2}$	1	5 $\frac{1}{2}$	13 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	
800	39122	21 $\frac{1}{2}$	21	5 $\frac{1}{2}$	1	6 $\frac{1}{2}$	15 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	

SINGLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
60	39086	14 $\frac{1}{2}$	13	3 $\frac{1}{2}$	$\frac{5}{8}$	2 $\frac{1}{2}$	7 $\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{3}{4}$	6 $\frac{1}{2}$	
100	39094	16 $\frac{1}{2}$	14	4	$\frac{5}{8}$	3 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	1	7	
200	39102	18 $\frac{1}{2}$	18	5	$\frac{5}{8}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	1	8	
300	44999	21 $\frac{1}{2}$	21	6 $\frac{1}{2}$	$\frac{5}{8}$	4 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$	1	10 $\frac{1}{2}$	
400	39110	23 $\frac{1}{2}$	23 $\frac{1}{2}$	7	$\frac{5}{8}$	4 $\frac{1}{2}$	12 $\frac{1}{2}$	2	1 $\frac{1}{2}$	11 $\frac{1}{2}$	
600	39118	27 $\frac{1}{2}$	27	8 $\frac{1}{2}$	1	6	13 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	13 $\frac{1}{2}$	
800	39126	29 $\frac{1}{2}$	29	9	1	7 $\frac{1}{2}$	15 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{2}$	

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
60	39083	9 $\frac{1}{2}$	8	9	$\frac{5}{8}$	2 $\frac{1}{2}$	8 $\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{2}$	5 $\frac{1}{2}$
100	39091	11 $\frac{1}{2}$	9	9 $\frac{1}{2}$	$\frac{5}{8}$	2 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	1	2 $\frac{1}{2}$	5 $\frac{1}{2}$
200	39099	13 $\frac{1}{2}$	12 $\frac{1}{2}$	10	$\frac{5}{8}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	1	3 $\frac{1}{2}$	5 $\frac{1}{2}$
300	44996	16 $\frac{1}{2}$	15	11	$\frac{5}{8}$	3 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$	1	4 $\frac{1}{2}$	6 $\frac{1}{2}$
400	39107	17 $\frac{1}{2}$	17	11 $\frac{1}{2}$	$\frac{5}{8}$	4 $\frac{1}{2}$	12 $\frac{1}{2}$	2	1 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{2}$
600	39115	20 $\frac{1}{2}$	20	13	1	5 $\frac{1}{2}$	14 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{1}{2}$
800	39123	22 $\frac{1}{2}$	21	13 $\frac{1}{2}$	1	6 $\frac{1}{2}$	15 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{1}{2}$

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
60	39087	14 $\frac{1}{2}$	13	9	$\frac{5}{8}$	2 $\frac{1}{2}$	8 $\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{3}{4}$	6 $\frac{1}{2}$	5 $\frac{1}{2}$
100	39095	16 $\frac{1}{2}$	14	9 $\frac{1}{2}$	$\frac{5}{8}$	3 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	1	7	5 $\frac{1}{2}$
200	39103	18 $\frac{1}{2}$	18	12	$\frac{5}{8}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	1	8	5 $\frac{1}{2}$
300	45037	22 $\frac{1}{2}$	21	14 $\frac{1}{2}$	$\frac{5}{8}$	4 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$	1	10 $\frac{1}{2}$	6 $\frac{1}{2}$
400	39111	24 $\frac{1}{2}$	23 $\frac{1}{2}$	16	$\frac{5}{8}$	4 $\frac{1}{2}$	12 $\frac{1}{2}$	2	1 $\frac{1}{2}$	11 $\frac{1}{2}$	6 $\frac{1}{2}$
600	39119	27 $\frac{1}{2}$	27	18 $\frac{1}{2}$	1	6	14 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	13 $\frac{1}{2}$	7 $\frac{1}{2}$
800	39127	30	29	20	1	7 $\frac{1}{2}$	15 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{2}$	7 $\frac{1}{2}$

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
60	39084	9 $\frac{1}{2}$	8	14	$\frac{5}{8}$	2 $\frac{1}{2}$	8 $\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{2}$	5 $\frac{1}{2}$
100	39092	11 $\frac{1}{2}$	9	14 $\frac{1}{2}$	$\frac{5}{8}$	2 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	1	2 $\frac{1}{2}$	5 $\frac{1}{2}$
200	39100	13 $\frac{1}{2}$	12 $\frac{1}{2}$	16	$\frac{5}{8}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	1	3 $\frac{1}{2}$	5 $\frac{1}{2}$
300	44997	16 $\frac{1}{2}$	15	17 $\frac{1}{2}$	$\frac{5}{8}$	3 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$	1	4 $\frac{1}{2}$	6 $\frac{1}{2}$
400	39108	17 $\frac{1}{2}$	17	18	$\frac{5}{8}$	4 $\frac{1}{2}$	12 $\frac{1}{2}$	2	1 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{2}$
600	39116	20 $\frac{1}{2}$	20	20 $\frac{1}{2}$	1	5 $\frac{1}{2}$	14 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{1}{2}$
800	39124	22 $\frac{1}{2}$	21	21 $\frac{1}{2}$	1	6 $\frac{1}{2}$	15 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{1}{2}$

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
60	39088	14 $\frac{1}{2}$	13	14	$\frac{5}{8}$	2 $\frac{1}{2}$	8 $\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{3}{4}$	6 $\frac{1}{2}$	5 $\frac{1}{2}$
100	39096	16 $\frac{1}{2}$	14	14 $\frac{1}{2}$	$\frac{5}{8}$	3 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	1	7	5 $\frac{1}{2}$
200	39104	18 $\frac{1}{2}$	18	18	$\frac{5}{8}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	1	8	5 $\frac{1}{2}$
300	45038	22 $\frac{1}{2}$	21	20 $\frac{1}{2}$	$\frac{5}{8}$	4 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$	1	10 $\frac{1}{2}$	6 $\frac{1}{2}$
400	39112	24 $\frac{1}{2}$	23 $\frac{1}{2}$	22 $\frac{1}{2}$	$\frac{5}{8}$	4 $\frac{1}{2}$	12 $\frac{1}{2}$	2	1 $\frac{1}{2}$	11 $\frac{1}{2}$	6 $\frac{1}{2}$
600	39120	27 $\frac{1}{2}$	27	26	1	6	14 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	13 $\frac{1}{2}$	7 $\frac{1}{2}$
800	39128	30	29	28	1	7 $\frac{1}{2}$	15 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{2}$	7 $\frac{1}{2}$

FOUR-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
60	39085	9 $\frac{1}{2}$	8	19 $\frac{1}{2}$	$\frac{5}{8}$	2 $\frac{1}{2}$	8 $\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{2}$	5 $\frac{1}{2}$
100	39093	11 $\frac{1}{2}$	9	20	$\frac{5}{8}$	2 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	1	2 $\frac{1}{2}$	5 $\frac{1}{2}$
200	39101	13 $\frac{1}{2}$	12 $\frac{1}{2}$	22	$\frac{5}{8}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	1	3 $\frac{1}{2}$	5 $\frac{1}{2}$
300	44998	16 $\frac{1}{2}$	15	23 $\frac{1}{2}$	$\frac{5}{8}$	3 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$	1	4 $\frac{1}{2}$	6 $\frac{1}{2}$
400	39109	17 $\frac{1}{2}$	17	25	$\frac{5}{8}$	4 $\frac{1}{2}$	12 $\frac{1}{2}$	2	1 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{2}$
600	39117	20 $\frac{1}{2}$	20	28	1	5 $\frac{1}{2}$	14 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{1}{2}$
800	39125	22 $\frac{1}{2}$	21	29 $\frac{1}{2}$	1	6 $\frac{1}{2}$	15 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{1}{2}$

FOUR-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V
60	39089	14 $\frac{1}{2}$	13	19 $\frac{1}{2}$	$\frac{5}{8}$	2 $\frac{1}{2}$	8 $\frac{1}{2}$	3 $\frac{1}{2}$	$\frac{3}{4}$	6 $\frac{1}{2}$	5 $\frac{1}{2}$
100	39097	16 $\frac{1}{2}$	14	20	$\frac{5}{8}$	3 $\frac{1}{2}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$	1	7	5 $\frac{1}{2}$
200	39105	18 $\frac{1}{2}$	18	24	$\frac{5}{8}$	3 $\frac{1}{2}$	10 $\frac{1}{2}$	1 $\frac{1}{2}$	1	8	5 $\frac{1}{2}$
300	45039	22 $\frac{1}{2}$	21	27 $\frac{1}{2}$	$\frac{5}{8}$	4 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{1}{2}$	1	10 $\frac{1}{2}$	6 $\frac{1}{2}$
400	39113	24 $\frac{1}{2}$	23 $\frac{1}{2}$	29 $\frac{1}{2}$	$\frac{5}{8}$	4 $\frac{1}{2}$	12 $\frac{1}{2}$	2	1 $\frac{1}{2}$	11 $\frac{1}{2}$	6 $\frac{1}{2}$
600	39121	27 $\frac{1}{2}$	27	33 $\frac{1}{2}$	1	6	14 $\frac{1}{2}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	13 $\frac{1}{2}$	7 $\frac{1}{2}$
800	39129	30	29	36	1	7 $\frac{1}{2}$	15 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	14 $\frac{1}{2}$	7 $\frac{1}{2}$

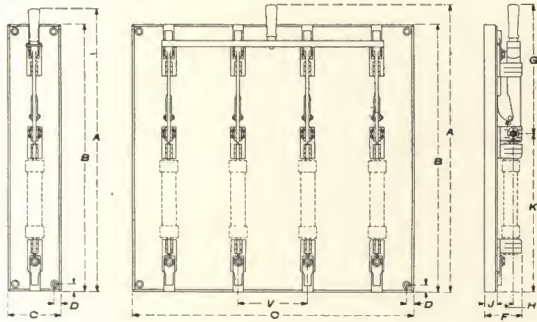
For REFERENCE ONLY.

AIR BREAK SWITCHES

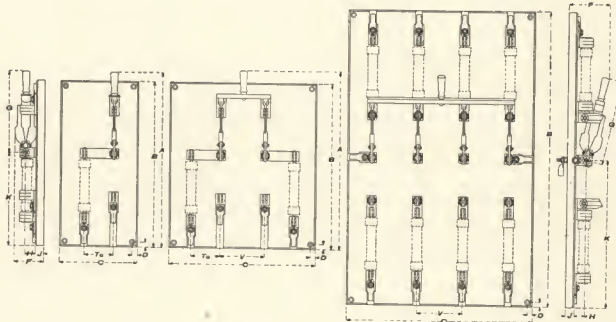
QUICK BREAK LEVER SWITCHES (Continued)

DIMENSIONS OF TYPE Q, FORM C-2 LEVER SWITCHES, FRONT CONNECTED ON SLATE BASES,
WITH NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CONNECTIONS, 600 VOLTS D.C.

SINGLE THROW



DOUBLE THROW



SINGLE-POLE

SINGLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Ta
60	45100	15 $\frac{3}{8}$	14	3 $\frac{1}{2}$	$\frac{9}{16}$	2 $\frac{3}{4}$	7 $\frac{1}{8}$	$\frac{3}{4}$	1	7 $\frac{9}{16}$		60	39198	14 $\frac{7}{8}$	13	6 $\frac{1}{2}$	$\frac{9}{16}$	2 $\frac{3}{4}$	7 $\frac{1}{8}$	$\frac{3}{4}$	1	6 $\frac{3}{8}$		2 $\frac{1}{2}$
100	45104	19 $\frac{3}{8}$	17	4	$\frac{1}{8}$	2 $\frac{3}{4}$	9 $\frac{1}{8}$	$\frac{1}{4}$	1	10 $\frac{1}{8}$		100	39206	18 $\frac{3}{8}$	16	7	$\frac{1}{8}$	3 $\frac{1}{4}$	9 $\frac{1}{8}$	$\frac{1}{4}$	1	8 $\frac{3}{8}$		3 $\frac{1}{8}$
200	45108	23 $\frac{3}{8}$	22	4 $\frac{1}{2}$	$\frac{1}{8}$	3 $\frac{1}{8}$	10 $\frac{1}{8}$	$\frac{1}{4}$	1	13 $\frac{1}{8}$		200	39214	21 $\frac{1}{8}$	21	9 $\frac{1}{2}$	$\frac{1}{8}$	3 $\frac{1}{4}$	10 $\frac{1}{8}$	$\frac{1}{4}$	1	11 $\frac{1}{8}$		3 $\frac{1}{8}$
400	45112	29 $\frac{1}{8}$	29	4 $\frac{1}{2}$	$\frac{1}{8}$	4 $\frac{3}{8}$	12 $\frac{1}{8}$	$\frac{1}{4}$	1	17 $\frac{1}{8}$		400	39222	27	26 $\frac{1}{2}$	9	$\frac{1}{8}$	4 $\frac{1}{8}$	12 $\frac{1}{8}$	$\frac{1}{4}$	1	14 $\frac{1}{8}$		4 $\frac{1}{8}$
600	45116	33 $\frac{1}{2}$	33 $\frac{1}{2}$	5 $\frac{1}{2}$	1	5 $\frac{1}{2}$	13 $\frac{1}{8}$	$\frac{1}{2}$	1	20 $\frac{1}{2}$		600	39230	31 $\frac{3}{4}$	31	10 $\frac{1}{2}$	1	6	13 $\frac{1}{8}$	$\frac{1}{2}$	1	17 $\frac{3}{8}$		4 $\frac{1}{8}$

DOUBLE-POLE

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Amp. Cap.	Cat. No.	A	B	C	D	F	G	H	J	K	V	Ta
60	45101	15 $\frac{3}{8}$	14	9	$\frac{9}{16}$	2 $\frac{3}{4}$	8 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	7 $\frac{9}{16}$	5 $\frac{3}{8}$	60	39199	14 $\frac{1}{2}$	13	14 $\frac{1}{2}$	$\frac{9}{16}$	3 $\frac{1}{4}$	8 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	6 $\frac{3}{8}$	5 $\frac{3}{8}$	2 $\frac{1}{2}$
100	45105	19 $\frac{3}{8}$	17	9 $\frac{1}{2}$	$\frac{1}{8}$	2 $\frac{3}{4}$	9 $\frac{1}{8}$	$\frac{1}{4}$	1	10 $\frac{1}{8}$	5 $\frac{3}{8}$	100	39207	18 $\frac{3}{8}$	16	15 $\frac{1}{2}$	$\frac{1}{8}$	3 $\frac{1}{4}$	9 $\frac{1}{8}$	$\frac{1}{4}$	1	8 $\frac{3}{8}$	5 $\frac{3}{8}$	2 $\frac{1}{2}$
200	45109	23 $\frac{3}{8}$	22	10	$\frac{1}{8}$	3 $\frac{1}{8}$	10 $\frac{1}{8}$	$\frac{1}{4}$	1	13 $\frac{1}{8}$	5 $\frac{3}{8}$	200	39215	22 $\frac{1}{8}$	21	19	$\frac{1}{8}$	3 $\frac{1}{4}$	10 $\frac{1}{8}$	$\frac{1}{4}$	1	11 $\frac{1}{8}$	5 $\frac{3}{8}$	3 $\frac{1}{8}$
400	45113	29 $\frac{1}{8}$	29	11 $\frac{1}{2}$	$\frac{1}{8}$	4 $\frac{3}{8}$	12 $\frac{1}{8}$	$\frac{1}{4}$	1	17 $\frac{1}{8}$	6 $\frac{3}{8}$	400	39223	27 $\frac{1}{8}$	26 $\frac{1}{2}$	20	$\frac{1}{8}$	4 $\frac{1}{8}$	12 $\frac{1}{8}$	$\frac{1}{4}$	1	14 $\frac{1}{8}$	6 $\frac{3}{8}$	4 $\frac{1}{8}$
600	45117	34 $\frac{1}{2}$	33 $\frac{1}{2}$	13	1	5 $\frac{1}{2}$	14 $\frac{1}{8}$	$\frac{1}{2}$	1	20 $\frac{1}{2}$	7 $\frac{1}{2}$	600	39231	31 $\frac{3}{4}$	31	22 $\frac{1}{2}$	1	6	14 $\frac{1}{8}$	$\frac{1}{2}$	1	17 $\frac{3}{8}$	7 $\frac{1}{2}$	4 $\frac{1}{8}$

TRIPLE-POLE

TRIPLE-POLE

60	45102	15 $\frac{3}{8}$	14	14	$\frac{9}{16}$	2 $\frac{5}{8}$	8 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	7 $\frac{9}{16}$	5 $\frac{3}{8}$	60	39200	24	14	$\frac{9}{16}$	3 $\frac{9}{16}$	8 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	12	5 $\frac{3}{8}$
100	45106	19 $\frac{3}{8}$	17	14 $\frac{1}{2}$	$\frac{1}{8}$	2 $\frac{3}{4}$	9 $\frac{1}{8}$	$\frac{1}{4}$	1	10 $\frac{1}{8}$	5 $\frac{3}{8}$	100	39208	30	14 $\frac{1}{2}$	$\frac{1}{8}$	4 $\frac{1}{8}$	9 $\frac{1}{8}$	$\frac{1}{4}$	1	15	5 $\frac{3}{8}$
200	45110	23 $\frac{3}{8}$	22	16	$\frac{1}{8}$	3 $\frac{1}{8}$	10 $\frac{1}{8}$	$\frac{1}{4}$	1	13 $\frac{1}{8}$	5 $\frac{3}{8}$	200	39216	37 $\frac{1}{2}$	18	1	5 $\frac{1}{8}$	10 $\frac{1}{8}$	$\frac{1}{4}$	1	18 $\frac{1}{2}$	5 $\frac{3}{8}$
400	45114	29 $\frac{1}{8}$	29	18	$\frac{1}{8}$	4 $\frac{3}{8}$	12 $\frac{1}{8}$	$\frac{1}{4}$	1	17 $\frac{1}{8}$	6 $\frac{3}{8}$	400	39224	47	23	$\frac{1}{8}$	7	12 $\frac{1}{8}$	$\frac{1}{4}$	1	23 $\frac{1}{2}$	6 $\frac{3}{8}$
600	45118	34 $\frac{1}{2}$	33 $\frac{1}{2}$	20 $\frac{1}{2}$	1	5 $\frac{1}{2}$	14 $\frac{1}{8}$	$\frac{1}{2}$	1	20 $\frac{1}{2}$	7 $\frac{1}{2}$	600	39232	54	26	1	8 $\frac{3}{4}$	14 $\frac{1}{8}$	$\frac{1}{2}$	1	27	7 $\frac{1}{2}$

FOUR-POLE

FOUR-POLE

60	45103	15 $\frac{1}{2}$	14	19 $\frac{1}{4}$	$\frac{9}{16}$	2 $\frac{3}{4}$	8 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	7 $\frac{9}{16}$	5 $\frac{3}{8}$	60	39201	24	19 $\frac{1}{4}$	$\frac{9}{16}$	3 $\frac{3}{8}$	8 $\frac{1}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	12	5 $\frac{3}{8}$
100	45107	19 $\frac{1}{2}$	17	20	$\frac{1}{8}$	2 $\frac{3}{4}$	9 $\frac{1}{8}$	1 $\frac{1}{4}$	1	10 $\frac{1}{8}$	5 $\frac{3}{8}$	100	39209	30	20	$\frac{1}{8}$	4 $\frac{1}{8}$	9 $\frac{1}{8}$	1 $\frac{1}{4}$	1	15	5 $\frac{3}{8}$
200	45111	23 $\frac{1}{2}$	22	22	$\frac{1}{8}$	3 $\frac{1}{8}$	10 $\frac{1}{8}$	1 $\frac{1}{4}$	1	13 $\frac{1}{8}$	5 $\frac{3}{8}$	200	39217	37 $\frac{1}{2}$	24	1	5 $\frac{1}{8}$	10 $\frac{1}{8}$	1 $\frac{1}{4}$	1	18 $\frac{1}{2}$	5 $\frac{3}{8}$
400	45115	29 $\frac{1}{2}$	29	25	$\frac{1}{8}$	4 $\frac{3}{8}$	12 $\frac{1}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{4}$	17 $\frac{1}{8}$	6 $\frac{3}{8}$	400	39225	47	30	$\frac{1}{8}$	7	12 $\frac{1}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{4}$	23 $\frac{1}{2}$	6 $\frac{3}{8}$
600	45119	34 $\frac{1}{2}$	33 $\frac{1}{2}$	28	1	5 $\frac{1}{2}$	14 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{4}$	20 $\frac{1}{2}$	7 $\frac{1}{2}$	600	39233	54	33 $\frac{1}{2}$	1	8 $\frac{1}{8}$	14 $\frac{1}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{4}$	27	7 $\frac{1}{2}$

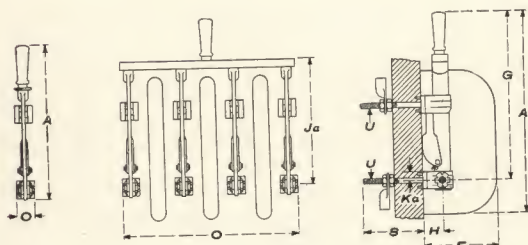
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AIR BREAK SWITCHES

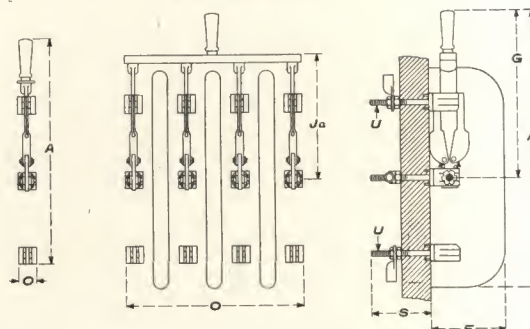
QUICK BREAK LEVER SWITCHES (Continued)

DIMENSIONS OF TYPE Q, FORM C-2 LEVER SWITCHES, BACK CONNECTED
WITHOUT FUSE CONNECTIONS FOR 600 VOLTS D.C.

SINGLE THROW



DOUBLE THROW



SINGLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
60	39138	8 $\frac{1}{8}$	5	7 $\frac{1}{8}$	3 $\frac{1}{2}$	3	3	18 thd	
100	39146	9 $\frac{1}{8}$	5	9 $\frac{1}{8}$	1 $\frac{1}{2}$	3	3	16 thd	
200	39154	10 $\frac{1}{8}$	6	10 $\frac{1}{8}$	1 $\frac{1}{2}$	4	4	13 thd	
300	45048	12 $\frac{1}{8}$	8	12 $\frac{1}{8}$	1 $\frac{1}{2}$	4	4	11 thd	
400	39162	13	8	12 $\frac{1}{2}$	2	4	4	12 thd	
600	39170	14 $\frac{1}{8}$	8	13	2 $\frac{1}{2}$	4	4	12 thd	
800	39178	16 $\frac{1}{8}$	8	15 $\frac{1}{8}$	3 $\frac{1}{2}$	4	4	12 thd	
1000	39494	17 $\frac{1}{8}$	8	16 $\frac{1}{8}$	3 $\frac{1}{2}$	4	4	12 thd	
1200	45058	19 $\frac{1}{8}$	8	17 $\frac{1}{8}$	4	5	5	12 thd	

SINGLE-POLE

Amp. Cap.	Cat. No.	A	F	G	O	S	U	Ja
60	39142	12 $\frac{1}{8}$	5	7 $\frac{1}{8}$	3	3	18 thd	
100	39150	14 $\frac{1}{8}$	5	9 $\frac{1}{8}$	3	3	16 thd	
200	39158	16 $\frac{1}{8}$	6	10 $\frac{1}{8}$	4	4	13 thd	
300	45052	18	6	11 $\frac{1}{8}$	4	4	11 thd	
400	39166	19 $\frac{1}{8}$	6	12 $\frac{1}{8}$	4	4	12 thd	
600	39174	21 $\frac{1}{8}$	8	13 $\frac{1}{8}$	4	4	12 thd	
800	39182	23 $\frac{1}{8}$	8	15 $\frac{1}{8}$	4	4	12 thd	
1000	39497	25 $\frac{1}{8}$	8	16 $\frac{1}{8}$	4	4	12 thd	
1200	45062	28 $\frac{1}{8}$	8	17 $\frac{1}{8}$	5	5	12 thd	

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
60	39139	10 $\frac{1}{8}$	5	9 $\frac{1}{8}$	3 $\frac{1}{2}$	3	3	18 thd	7 $\frac{1}{8}$
100	39147	12 $\frac{1}{8}$	5	10 $\frac{1}{8}$	1 $\frac{1}{2}$	3	3	16 thd	7 $\frac{1}{8}$
200	39155	14 $\frac{1}{8}$	6	11 $\frac{1}{8}$	1 $\frac{1}{2}$	4	4	13 thd	8 $\frac{1}{8}$
300	45049	15 $\frac{1}{8}$	6	13 $\frac{1}{8}$	1 $\frac{1}{2}$	4	4	11 thd	9 $\frac{1}{8}$
400	39163	17	6	14	2	5	4	12 thd	10 $\frac{1}{8}$
600	39171	18 $\frac{1}{8}$	8	15 $\frac{1}{8}$	2 $\frac{1}{2}$	6	4	12 thd	11 $\frac{1}{8}$
800	39179	20 $\frac{1}{8}$	8	17 $\frac{1}{8}$	3 $\frac{1}{2}$	6	4	12 thd	12 $\frac{1}{8}$
1000	39495	22	8	18 $\frac{1}{8}$	3 $\frac{1}{2}$	7	4	12 thd	13 $\frac{1}{8}$
1200	45059	22 $\frac{1}{2}$	8	19	4	7	5	12 thd	14

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	F	G	O	S	U	Ja
60	39143	15 $\frac{1}{8}$	5	9 $\frac{1}{8}$	3	3	18 thd	7 $\frac{1}{8}$
100	39151	17 $\frac{1}{8}$	5	10 $\frac{1}{8}$	3	3	16 thd	7 $\frac{1}{8}$
200	39159	19 $\frac{1}{8}$	6	11 $\frac{1}{8}$	4	4	13 thd	8 $\frac{1}{8}$
300	45053	21 $\frac{1}{8}$	6	13 $\frac{1}{8}$	5	4	11 thd	9 $\frac{1}{8}$
400	39167	23 $\frac{1}{8}$	6	14	5	4	12 thd	10 $\frac{1}{8}$
600	39175	26	8	15 $\frac{1}{8}$	6	4	12 thd	11 $\frac{1}{8}$
800	39183	28 $\frac{1}{8}$	8	17 $\frac{1}{8}$	6	4	12 thd	12 $\frac{1}{8}$
1000	39498	30 $\frac{1}{8}$	8	18 $\frac{1}{8}$	7	4	12 thd	13 $\frac{1}{8}$
1200	45063	31 $\frac{1}{8}$	8	19	7	5	12 thd	14

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
60	39140	10 $\frac{1}{8}$	5	9 $\frac{1}{8}$	3 $\frac{1}{2}$	6	3	18 thd	7 $\frac{1}{8}$
100	39148	12 $\frac{1}{8}$	5	10 $\frac{1}{8}$	1 $\frac{1}{2}$	6	3	16 thd	7 $\frac{1}{8}$
200	39156	14 $\frac{1}{8}$	6	11 $\frac{1}{8}$	1 $\frac{1}{2}$	8	4	13 thd	8 $\frac{1}{8}$
300	45050	15 $\frac{1}{8}$	6	13 $\frac{1}{8}$	1 $\frac{1}{2}$	9	4	11 thd	9 $\frac{1}{8}$
400	39164	17	6	14	2	9	4	12 thd	10 $\frac{1}{8}$
600	39172	18 $\frac{1}{8}$	8	15 $\frac{1}{8}$	2 $\frac{1}{2}$	11	4	12 thd	11 $\frac{1}{8}$
800	39180	20 $\frac{1}{8}$	8	17 $\frac{1}{8}$	3 $\frac{1}{2}$	12	4	12 thd	12 $\frac{1}{8}$
1000	39496	22	8	18 $\frac{1}{8}$	3 $\frac{1}{2}$	13	4	12 thd	13 $\frac{1}{8}$
1200	45060	22 $\frac{1}{2}$	8	19	4	12	5	12 thd	14

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	F	G	O	S	U	Ja
60	39144	15 $\frac{1}{8}$	5	9 $\frac{1}{8}$	6	3	18 thd	7 $\frac{1}{8}$
100	39152	17 $\frac{1}{8}$	5	10 $\frac{1}{8}$	6	3	16 thd	7 $\frac{1}{8}$
200	39160	19 $\frac{1}{8}$	6	11 $\frac{1}{8}$	8	4	13 thd	8 $\frac{1}{8}$
300	45054	21 $\frac{1}{8}$	6	13 $\frac{1}{8}$	9	4	11 thd	9 $\frac{1}{8}$
400	39168	23 $\frac{1}{8}$	6	14	9	4	12 thd	10 $\frac{1}{8}$
600	39176	26	8	15 $\frac{1}{8}$	11	4	12 thd	11 $\frac{1}{8}$
800	39184	28 $\frac{1}{8}$	8	17 $\frac{1}{8}$	12	4	12 thd	12 $\frac{1}{8}$
1000	39499	30 $\frac{1}{8}$	8	18 $\frac{1}{8}$	13	4	12 thd	13 $\frac{1}{8}$
1200	45064	31 $\frac{1}{8}$	8	19	12	5	12 thd	14

FOUR-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
60	39141	10 $\frac{1}{8}$	5	9 $\frac{1}{8}$	3 $\frac{1}{2}$	9	3	18 thd	7 $\frac{1}{8}$
100	39149	12 $\frac{1}{8}$	5	10 $\frac{1}{8}$	1 $\frac{1}{2}$	9	3	16 thd	7 $\frac{1}{8}$
200	39157	14 $\frac{1}{8}$	6	11 $\frac{1}{8}$	1 $\frac{1}{2}$	12	4	13 thd	8 $\frac{1}{8}$
300	45051	15 $\frac{1}{8}$	6	13 $\frac{1}{8}$	1 $\frac{1}{2}$	13	4	11 thd	9 $\frac{1}{8}$
400	39165	17 $\frac{1}{8}$	6	14	2	14	4	12 thd	10 $\frac{1}{8}$
600	39173	18 $\frac{1}{8}$	8	15 $\frac{1}{8}$	2 $\frac{1}{2}$	16	4	12 thd	11 $\frac{1}{8}$
800	39181	20 $\frac{1}{8}$	8	17 $\frac{1}{8}$	3 $\frac{1}{2}$	17	4	12 thd	12 $\frac{1}{8}$
1000	45056	22	8	18 $\frac{1}{8}$	3 $\frac{1}{2}$	19	4	12 thd	13 $\frac{1}{8}$
1200	45061	22 $\frac{1}{2}$	8	19	4	17	5	12 thd	14

FOUR-POLE

Amp. Cap.	Cat. No.	A	F	G	O	S	U	Ja
60	39145	15 $\frac{1}{8}$	5	9 $\frac{1}{8}$	9	3	18 thd	7 $\frac{1}{8}$
100	39153	17 $\frac{1}{8}$	5	10 $\frac{1}{8}$	9	3	16 thd	7 $\frac{1}{8}$
200	39161	19 $\frac{1}{8}$	6	11 $\frac{1}{8}$	12	4	13 thd	8 $\frac{1}{8}$
300	45055	21 $\frac{1}{8}$	6	13 $\frac{1}{8}$	13	4	11 thd	9 $\frac{1}{8}$
400	39169	23 $\frac{1}{8}$	6	14 $\frac{1}{8}$	14	4	12 thd	10 $\frac{1}{8}$
600	39177	26	8	15 $\frac{1}{8}$	16	4	12 thd	11 $\frac{1}{8}$
800	39185	28 $\frac{1}{8}$	8	17 $\frac{1}{8}$	17	4	12 thd	12 $\frac{1}{8}$
1000	45057	30 $\frac{1}{8}$	8	18 $\frac{1}{8}$	19	4	12 thd	13 $\frac{1}{8}$
1200	45065	31 $\frac{1}{8}$	8	19	17	5	12 thd	14

Counterbore $\frac{1}{2}$ in. deep for 2 in. panel.
For REFERENCE ONLY.

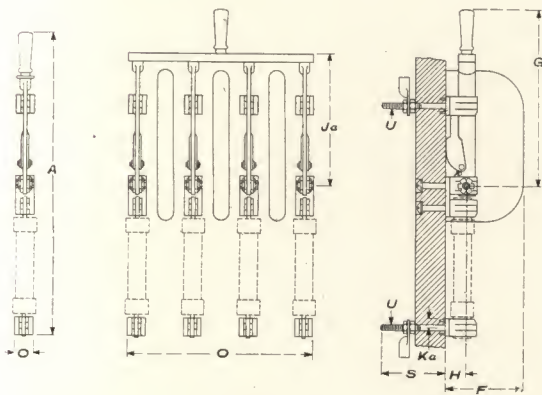
AIR BREAK SWITCHES

QUICK BREAK LEVER SWITCHES (Continued)

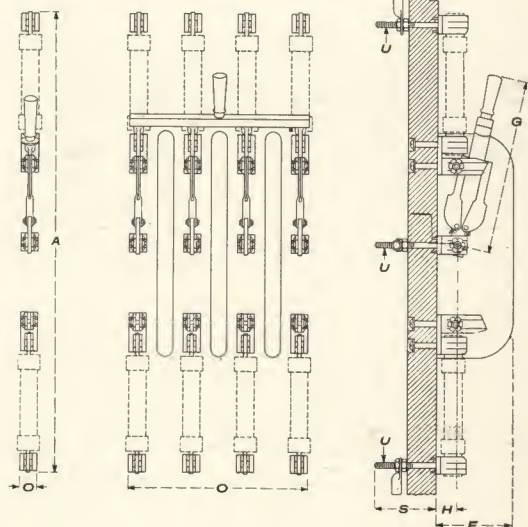
DIMENSIONS OF TYPE Q, FORM C-2 LEVER SWITCHES, BACK CONNECTED, WITH NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CONNECTIONS

600 VOLTS D.C.

SINGLE THROW



DOUBLE THROW



SINGLE-POLE

SINGLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja	Amp. Cap.	Cat. No.	A	F	G	H	O	S	U
60	45124	13 1/8	5	7 1/8	3 1/2	3 1/8	3	18 thd		60	39246	21 1/4	5	7 1/8	3 1/2	3 1/8	3	18 thd
100	45128	17 1/8	5	9 1/8	1 1/2	3 1/8	3	16 thd		100	39254	26 1/4	5	10 1/8	1 1/2	3 1/8	3	16 thd
200	45132	20 1/8	6	10 1/8	1 1/8	1 1/8	4 1/2	13 thd		200	39262	31 1/8	6	10 1/8	1 1/8	1 1/8	4 1/2	13 thd
400	45136	25 1/8	6	12 1/8	2	1 1/8	4 1/2	12 thd		400	39270	38 1/4	6	12 1/8	2	1 1/8	4 1/2	12 thd
600	45140	28 3/8	8	13 3/8	2 1/2	1 3/8	4 1/2	12 thd		600	39278	43 1/4	8	13 3/8	2 1/2	1 3/8	4 1/2	12 thd

DOUBLE-POLE

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja	Amp. Cap.	Cat. No.	A	F	G	H	O	S	U
60	45125	15 1/8	5	9 1/8	3 1/2	3 1/8	3	18 thd	7 1/8	60	39247	21 1/4	5	9 1/8	3 1/2	3 1/8	3	18 thd
100	45129	19 1/8	5	10 1/8	1 1/2	3 1/8	3	16 thd	7 1/8	100	39255	26 1/4	5	10 1/8	1 1/2	3 1/8	3	16 thd
200	45133	22 3/8	6	11 3/8	1 1/8	4 1/8	4 1/2	13 thd	8 1/2	200	39263	31 1/8	6	11 3/8	1 1/8	4 1/8	4 1/2	13 thd
400	45137	27	6	14	2	5 1/8	4 1/2	12 thd	10 1/2	400	39271	38 1/4	6	14	2	5 1/8	4 1/2	12 thd
600	45141	30 3/8	8	15 3/8	2 1/2	6 1/8	4 1/2	12 thd	11 3/8	600	39279	43 1/4	8	15 3/8	2 1/2	6 1/8	4 1/2	12 thd

TRIPLE-POLE

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja	Amp. Cap.	Cat. No.	A	F	G	H	O	S	U
60	45126	15 1/8	5	9 1/8	3 1/2	6 1/8	3	18 thd	7 1/8	60	39248	21 1/4	5	9 1/8	3 1/2	6 1/8	3	18 thd
100	45130	19 1/8	5	10 1/8	1 1/2	6 1/8	3	16 thd	7 1/8	100	39256	26 1/4	5	10 1/8	1 1/2	6 1/8	3	16 thd
200	45134	22 3/8	6	11 3/8	1 1/8	8 1/8	4 1/2	13 thd	8 1/2	200	39264	31 1/8	6	11 3/8	1 1/8	8 1/8	4 1/2	13 thd
400	45138	27	6	14	2	9 1/8	4 1/2	12 thd	10 1/2	400	39272	38 1/4	6	14	2	9 1/8	4 1/2	12 thd
600	45142	30 3/8	8	15 3/8	2 1/2	11 3/8	4 1/2	12 thd	11 3/8	600	39280	43 1/4	8	15 3/8	2 1/2	11 3/8	4 1/2	12 thd

FOUR-POLE

FOUR-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja	Amp. Cap.	Cat. No.	A	F	G	H	O	S	U
60	45127	15 1/8	5	9 1/8	3 1/2	9 1/8	3	18 thd	7 1/8	60	39249	21 1/4	5	9 1/8	3 1/2	9 1/8	3	18 thd
100	45131	19 1/8	5	10 1/8	1 1/2	9 1/8	3	16 thd	7 1/8	100	39257	26 1/4	5	10 1/8	1 1/2	9 1/8	3	16 thd
200	45135	22 3/8	6	11 3/8	1 1/8	12 3/8	4 1/2	13 thd	8 1/2	200	39265	31 1/8	6	11 3/8	1 1/8	12 3/8	4 1/2	13 thd
400	45139	27 1/8	6	14 1/8	2	14 1/4	4 1/2	12 thd	10 1/2	400	39273	38 1/4	6	14 1/8	2	14 1/4	4 1/2	12 thd
600	45143	30 3/8	8	15 3/8	2 1/2	16	4 1/2	12 thd	11 3/8	600	39281	43 1/4	8	15 3/8	2 1/2	16	4 1/2	12 thd

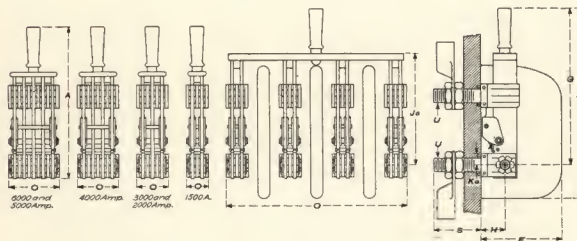
Counterbore 1/2 in. deep for 2 in. panel.
For REFERENCE ONLY.

AIR BREAK SWITCHES

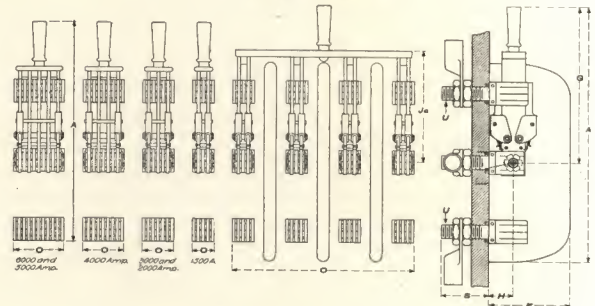
QUICK BREAK LEVER SWITCHES (Continued)

DIMENSIONS OF TYPE Q, FORM C-2, LEVER SWITCHES, BACK CONNECTED
WITHOUT FUSE CONNECTIONS FOR 600 VOLTS D.C.

SINGLE THROW



DOUBLE THROW



SINGLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
1500	39500	15 $\frac{3}{8}$		14 $\frac{1}{2}$	3 $\frac{3}{8}$	2 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$ —12 thd	
2000	39506	17 $\frac{1}{2}$		16 $\frac{1}{2}$	3 $\frac{3}{8}$	3	6	1 $\frac{1}{2}$ —12 thd	
3000	45070	20 $\frac{1}{8}$		18 $\frac{1}{2}$	4	3	7	2—12 thd	
4000	39512	20 $\frac{1}{8}$		18 $\frac{1}{2}$	4	4 $\frac{1}{2}$	8	2 $\frac{1}{2}$ —12 thd	
5000	45084	20 $\frac{1}{2}$		18 $\frac{3}{4}$	4	5	9	2 $\frac{3}{4}$ —12 thd	
6000	45086	20 $\frac{1}{2}$		18 $\frac{3}{4}$	4	5	9	3 $\frac{1}{4}$ —12 thd	

SINGLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
1500	39503	23 $\frac{1}{8}$		14 $\frac{1}{2}$	3 $\frac{3}{8}$	2 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$ —12 thd	
2000	39509	25 $\frac{1}{8}$		16 $\frac{1}{2}$	3 $\frac{3}{8}$	3	6	1 $\frac{1}{2}$ —12 thd	
3000	45074	29 $\frac{1}{8}$		18 $\frac{1}{2}$	4	3	7	2—12 thd	
4000	39513	29 $\frac{1}{8}$		18 $\frac{1}{2}$	4	4 $\frac{1}{2}$	8	2 $\frac{1}{2}$ —12 thd	
5000	45085	29 $\frac{1}{2}$		18 $\frac{3}{4}$	4	5	9	2 $\frac{3}{4}$ —12 thd	
6000	45087	29 $\frac{1}{2}$		18 $\frac{3}{4}$	4	5	9	3 $\frac{1}{4}$ —12 thd	

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
1500	39501	20 $\frac{3}{8}$	8	17 $\frac{1}{4}$	3 $\frac{3}{8}$	8	5 $\frac{1}{2}$	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{4}$
2000	39507	22 $\frac{1}{4}$	8	19 $\frac{1}{8}$	3 $\frac{3}{8}$	9 $\frac{1}{2}$	6	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{8}$
3000	45071	24 $\frac{1}{8}$	8	21 $\frac{1}{8}$	4	9 $\frac{1}{2}$	7	2—12 thd	14 $\frac{1}{8}$

DOUBLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
1500	39504	28 $\frac{1}{4}$	8	17 $\frac{1}{4}$	3 $\frac{3}{8}$	8	5 $\frac{1}{2}$	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{4}$
2000	39510	30 $\frac{1}{8}$	8	19 $\frac{1}{8}$	3 $\frac{3}{8}$	9 $\frac{1}{2}$	6	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{8}$
3000	45075	33 $\frac{1}{8}$	8	21 $\frac{1}{8}$	4	9 $\frac{1}{2}$	7	2—12 thd	14 $\frac{1}{8}$

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
1500	39502	20 $\frac{3}{8}$	8	17	3 $\frac{3}{8}$	13 $\frac{1}{4}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{4}$
2000	39508	22 $\frac{1}{4}$	8	19 $\frac{1}{8}$	3 $\frac{3}{8}$	16	6	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{8}$
3000	45072	24 $\frac{1}{8}$	8	20 $\frac{1}{2}$	4	16	7	2—12 thd	14 $\frac{1}{8}$

TRIPLE-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
1500	39505	28	8	17	3 $\frac{3}{8}$	13 $\frac{1}{4}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{4}$
2000	39511	30 $\frac{1}{8}$	8	19 $\frac{1}{8}$	3 $\frac{3}{8}$	16	6	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{8}$
3000	45076	33 $\frac{1}{8}$	8	20 $\frac{1}{2}$	4	16	7	2—12 thd	14 $\frac{1}{8}$

FOUR-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
1500	45066	20 $\frac{3}{8}$	8	17 $\frac{1}{4}$	3 $\frac{3}{8}$	19 $\frac{1}{4}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{4}$
2000	45068	22 $\frac{1}{4}$	8	19 $\frac{1}{8}$	3 $\frac{3}{8}$	22 $\frac{1}{2}$	6	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{8}$
3000	45073	24 $\frac{1}{8}$	8	21 $\frac{1}{8}$	4	22 $\frac{1}{2}$	7	2—12 thd	14 $\frac{1}{8}$

FOUR-POLE

Amp. Cap.	Cat. No.	A	F	G	H	O	S	U	Ja
1500	45067	28 $\frac{1}{4}$	8	17 $\frac{1}{4}$	3 $\frac{3}{8}$	19 $\frac{1}{4}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{4}$
2000	45069	30 $\frac{1}{8}$	8	19 $\frac{1}{8}$	3 $\frac{3}{8}$	22 $\frac{1}{2}$	6	1 $\frac{1}{2}$ —12 thd	12 $\frac{1}{8}$
3000	45077	33 $\frac{1}{8}$	8	21 $\frac{1}{8}$	4	22 $\frac{1}{2}$	7	2—12 thd	14 $\frac{1}{8}$

* Counterbore $\frac{1}{2}$ in. deep for 2 in. panel.
For REFERENCE ONLY.

FIELD DISCHARGE LEVER SWITCHES

TYPE L, FORM F-16, 250 VOLTS, DIRECT CURRENT, BACK CONNECTED
FOR MOUNTING ON 1 1/2 IN. OR 2 IN. PANELS

The use of the Field Discharge Lever Switch is recommended in connection with all generators having highly inductive field circuits. By the use of this switch the inductive discharge is dissipated through the discharge resistance without injury to the machine. These switches are provided with a long clip to which is connected the discharge resistance. The hinge clips should be connected to the field of the machine and the upper clips to the source of excitation. When the switch is opened, the source of power is cut off and the field is short-circuited through the discharge resistance. On single-throw switches the discharge clip is pinned so as to prevent the switch being opened too far. Double throw switches are equipped with a positive lock, consisting of a metal segment and plunger, which locks the switch in the discharge clips and the intermediate or open position, and this lock must be released before the switch can be moved to the next position.

Discharge resistances are not included in list prices of switches. Full information regarding them will be sent on receipt of necessary data regarding the generator.

AIR BREAK SWITCHES

QUICK BREAK LEVER SWITCHES (Concluded)

TYPE L, FORM F-16, 250 VOLTS, DIRECT CURRENT, BACK CONNECTED,
FOR MOUNTING ON 1 1/2 IN. OR 2 IN. PANELS



DOUBLE-POLE SINGLE THROW

Cat. No.	Amp. Cap.	List Price
64990	100	\$15.00
64992	200	21.00
64994	300	27.00

DOUBLE-POLE DOUBLE THROW

Cat. No.	Amp. Cap.	List Price
65000	100	\$22.00
65002	200	30.00
65004	300	42.00

TYPE L, FORM F-17, 250/600 VOLTS,

DIRECT CURRENT, BACK CONNECTED, FOR MOUNTING ON 1 1/2 IN. OR 2 IN. PANELS



SINGLE POLE

SINGLE THROW

DOUBLE POLE

SINGLE THROW

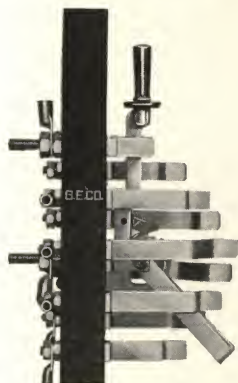
Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price	Cat. No.	Amp. Cap.	List Price
65010	100	Prices on Application	65016	400	Prices on Application	65020	100	Prices on Application	65026	400	Prices on Application
65012	200		65018	600		65022	200		65028	600	
65014	300					65024	300				

The difference between this switch and the Type L Form F-16 switch is that the latter when being closed makes contact in the upper clips after it leaves the discharge clip. This feature is essential for certain connections of the field, otherwise an arc would be established between the blade and the discharge clip. For this reason the F-16 switch is ordinarily used in connection with alternating current generators, while the F-17 is used generally for the field circuits of direct current machines, though it is also used in connection with alternating current machines.

Prices on application.

STARTING RHEOSTAT LEVER SWITCHES

125, 250 AND 600 VOLTS, BACK CONNECTED, FOR MOUNTING ON 1 1/2 IN.
AND 2 IN. PANELS



This switch is designed to provide a simple and compact form of starting rheostat switch for use in connection with all classes of service with which a rheostat can be used. The general mechanical construction of this switch closely resembles that of the Form D-12 Lever Switch, and the clips are arranged similar to those of the field discharge switch. The clips are so arranged that in closing the switch the blade makes consecutive contact with each set of clips. Starting rheostat switches are provided complete with cable terminals and necessary contact nuts.

These switches are made single-pole, multi-throw, in capacities of 200, 300, 400 and 600 amperes. For starting machines the switches may be used for capacities in excess of these ratings, but when so used they must be connected across the main switch, which must be relied upon to carry the current continuously.

Prices on application.

SECTION SWITCHES

All section switches are of the quick break type and can be furnished either with or without weatherproof boxes. For description refer to QC-2 Switches, as the construction is the same with the exception of the cast terminal. The section switch boxes are made from thoroughly seasoned ash, filled and japanned.



Cat. No. 40307
Section Switch

CAT. NO.		Amp. Cap.	LIST PRICE EACH		CAT. NO.		Amp. Cap.	LIST PRICE EACH	
With Box	With- out Box		With Box	Without Box	With Box	With- out Box		With Box	Without Box
40305	40313	200	\$8.50	\$6.75	40309	40317	600	\$15.50	\$12.25
40307	40315	400	10.50	9.00	40311	40319	1200	34.50	30.00
*40321		400	20.00						

*Has Fuse Block.



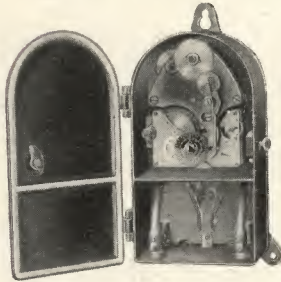
Cat. No. 40321
Section Switch

AIR BREAK SWITCHES

TIME SWITCHES

The Time Switch is a device for automatically opening and closing an electrical circuit at predetermined intervals. A laminated brush circuit breaker and a specially designed clock of great strength and durability makes the T-5 time switch positive and accurate.

One spring wound weekly is all the attention required.



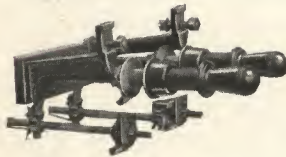
Cat. No.	Amps.	Volts	Net Price
44994	25	250	\$21.00

Price includes heating attachment for either 100/125 or 200/250 volt circuits. Attachment for 100/125 volt circuits will be supplied unless otherwise specified.

State on requisitions whether time switches are to be used on 125 or 250 volt circuits.

A device to prevent operation of the time switch every seventh day will be added for an additional price of \$2.50 net.

PRIMARY PLUG SWITCHES

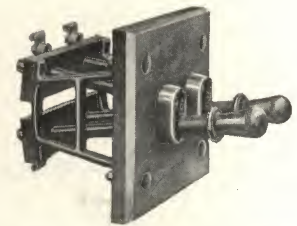


2500 Volt Plug Switch, Single Throw, 2 Receptacles, with Fuses

Primary Plug Switches are designed especially for use on the primary side of constant current transformers and also upon 2500 volt feeder circuits, when within their rated ampere capacities.

These switches are mounted in porcelain bushings set in the panel and extend beyond the live parts. The handles of the plugs are equipped with a flange, to furnish further protection to the operator.

The arc is broken entirely within the tube which encloses the plug. This arrangement effectively confines the arc, so that no damage can occur.



2500 Volt Plug Switch, Double Throw, 2 Receptacles without Fuses

2500 VOLT PLUG SWITCH, DOUBLE THROW, 2 RECEPTACLES, WITHOUT FUSES

The switches are made single- and double-throw, the single-throw 2500 volt plug switch being made for use in connection with fuses. In each case catalogue number includes plugs.

2500 VOLTS, 100 AMP., FOR MOUNTING ON PANELS

2500 VOLTS, 100 AMP. SWITCHES WITH INDIVIDUAL SUPPORTS

CAT. NO.		Description	List Price	CAT. NO.		Description	List Price
For 1½ In. Panel	For 2 In. Panel			For 1½ In. Panel	For 2 In. Panel		
42515	42520	S.P.S.T., without fuse connections	\$7.00	49325	49324	S.P.S.T., without fuse connections	\$8.50
42516	42521	D.P.S.T., without fuse connections	17.75	49323	49322	S.P.S.T., with fuse connections...	11.00
42517	42522	T.P.S.T., without fuse connections	25.00	5000 TO 10,000 VOLTS, 50 AMP., FOR MOUNTING ON PANELS			
42518	42523	4 P. S.T., without fuse connections	31.50				
42519	42524	6 P. S.T., without fuse connections	47.25				
42525	42530	S.P.S.T., with fuse connections...	10.50				
42526	42531	D.P.S.T., with fuse connections...	23.00				
42527	42532	T.P.S.T., with fuse connections...	33.00	CAT. NO. For 2 In. Panel	Voltage	Description	List Price
42528	42533	4 P. S.T., with fuse connections...	43.25				
42529	42534	6 P. S.T., with fuse connections...	63.25	25659	5000	S.P.S.T., without fuse connections	\$16.00
42505	42509	D.P.D.T., without fuse connections	33.75	35332	10000	S.P.S.T., without fuse connections	30.00
42506	42510	T.P.D.T., without fuse connections	49.00				
42507	42511	4 P.D.T., without fuse connections	65.00				
42508	42512	6 P.D.T., without fuse connections	100.00				

POLE LINE SWITCHES, 2500 VOLTS, 100 AMP., MOUNTED ON BASES

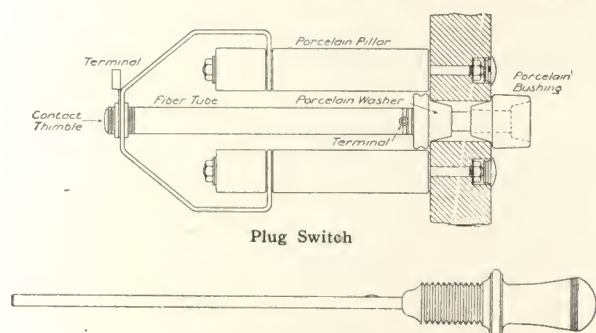
Cat. No.	Description	List Price
27393	S.P.S.T., without fuse connections.....	\$13.50
27394	D.P.S.T., without fuse connections.....	26.50
27395	T.P.S.T., without fuse connections.....	39.00

SECONDARY PLUG SWITCHES

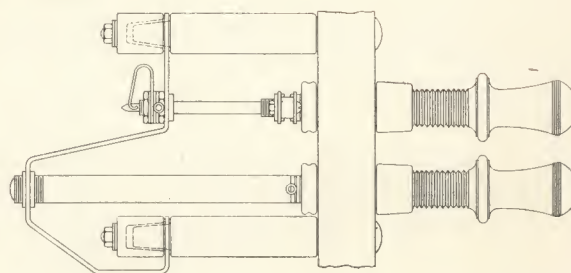
The requirements of the plug tube switches in the secondaries of constant current transformers are somewhat different from those in the primary side. Oftentimes the switches are required to withstand a potential of 8500 volts, so that the current-carrying capacity is usually comparatively small. It is for this reason that they are constructed of brass and are well insulated from the panel, making it unnecessary to depend on the insulating quality of the marble.

AIR BREAK SWITCHES

SECONDARY PLUG SWITCHES (Concluded)



Plug for Plug Switch



Combined Open-Circuiting Plug Switch and Ammeter Jack

The plug has an improved handle to give protection to the operator. A very good idea of the plug and receptacle can be obtained from the above illustration.

Secondary plug switches comprise open-circuiting plug switches, short-circuiting plug switches, and ammeter jacks. Open-circuiting plug switches are provided on all series arc panels and are used to disconnect the line from the secondaries of the transformers, when testing for grounds or open circuits. Open-circuiting plug switches can also serve to disconnect one of the circuits of a multi-circuit transformer for repairs without interrupting the other circuits.

Short-circuiting plug switches are included only in equipments of multi-circuit transformer panels and serve to connect both the secondary coils in series on one ammeter circuit when desired. This equipment is the same as that of the open-circuiting plug switch.

COMBINED OPEN-CIRCUITING PLUG SWITCH AND AMMETER JACK

The combined open-circuiting plug switch with ammeter jack consists of the ordinary open-circuiting plug switch and ammeter jack mounted one above the other on a small panel.

The arrangement is very compact and is used where one ammeter is to read the current in more than one circuit.

The bus ammeter jack is permanently connected in each circuit and by simply inserting the plug in any one of the contacts the ammeter is thrown in series with the circuit. The bus ammeter jack entirely eliminates the use of cables on constant current transformer panels.

BUS TRANSFER PLUG SWITCHES

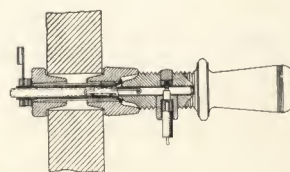
This switch is of the same construction as the open-circuiting plug switch. When several of these are used, the number of supports may be considerably reduced. It is, therefore, advisable when ordering to state the number of plugs, receptacles and pillars which are required.

The 2500 volt transfer switch is for use on a 100 ampere circuit, but is not designed to open under load. These switches are self-supporting and require a minimum amount of space.

CABLE TRANSFER PLUG SWITCHES

The receptacle of the cable transfer switch is the same as that of the open circuiting plug switch, with the exception that the fiber tube and contact farthest from the panel are omitted.

The cable which is used with these plugs is very flexible and has a heavy rubber insulation so that there may be no danger to the operator in handling. The length of the cable required should always be given when ordering. As the number of plugs is always less than the number of receptacles, the number required should always be specified.



SECONDARY PLUG SWITCHES

OPEN- AND SHORT-CIRCUITING PLUG SWITCHES, 10 AMP., 5000/10,000 VOLTS

CAT. NO.		Description	List Price
1½ In. Panel	2 In. Panel		
35600	35601	Open circuiting plug switch (with brown insulator bushings)...	\$4.00
35612	35613	Open circuiting plug.....	1.75

COMBINED OPEN- AND SHORT-CIRCUITING PLUG SWITCHES AND AMMETER JACKS

35602	35603	Open circuiting plug switch with ammeter jack (with brown porcelain bushings).....	\$8.00
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BUS TRANSFER PLUG SWITCH, 10 AMP., 5000/10,000 VOLTS

CAT. NO.		Description	List Price
1½ In. Panel	2 In. Panel		
35604	35605	Receptacle (with brown porcelain insulator).....	\$0.75
35617	35618	Porcelain pillar, complete, with stud and all attached parts..	.75
35612	35613	Plug.....	1.75

100 AMP., 2500 VOLTS

49318	49319	Receptacle.....	\$4.50
49320	49321	Plug.....	1.25

CABLE TRANSFER PLUG SWITCH, 10 AMP., 5000/10,000 VOLTS

35606	35607	Receptacles (with brown porcelain insulators).....	\$0.60
35614	35614	Plugs (with handles and cables)	\$5.00

AIR BREAK SWITCHES

AMMETER JACKS

10 AMPERES 10,000 VOLTS

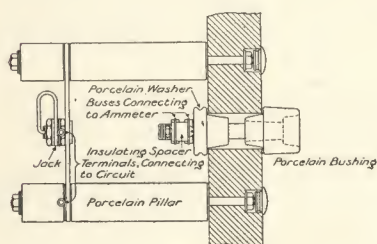
Ammeter jacks are made in two forms commonly known as the "Bus Ammeter Jack" and "Cable Ammeter Jack." Both forms accomplish the same purpose, but the former is preferable because it eliminates the use of flexible cable on the front of the switchboard.

The ammeter jack is used principally on arc circuits and connects the ammeter in series with any number of circuits.

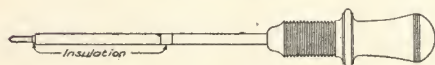
It does not open the main circuit until the ammeter connections are made and does not disconnect the ammeter from the circuit until after the main circuit is closed. For this reason, it may be used in the secondaries of current transformers without fear of the transformer remaining open-circuited.

All plug switch receptacles are listed with brown insulators for front of panels. If the quantity of receptacles in the panel is likely to cause confusion, the switches used for different purposes may be distinguished by color.

Any of the following switches can be provided with blue porcelain if desired.



Ammeter Jack



Plug for Ammeter Jack

CAT. NOS.		Description	List Price
1½ In. Panel	2 In. Panel		
35608	35609	Bus ammeter jack (with brown porcelain insulator)	\$3.00
35610	35611	Cable ammeter jack (with brown insulator)	
35615	35616	Bus ammeter plug	1.25
25688	25654	Cable ammeter jack, plug with 10 ft. of cable, and bushing for cable to pass through panel	3.00
			8.00

POTENTIAL AND SYNCHRONIZING PLUG SWITCHES

RECEPTACLES

PLUGS

No. of Points	Description	Cat. No.	List Price	No. of Points	Description	Cat. No.	List Price
2	125-250 Volt, D.C. Potential	29656	\$1.00	2	125-250 Volt, D.C. Potential	29652	\$2.00
2	600 Volt, D.C. Potential	13285	1.00	2	600 Volt, D.C. Potential	13265	2.00
4	125-250 Volt, D.C. Potential	13288	1.50	2	A.C. Potential	37644	2.00
4	600 Volt, D.C. Potential or Synchronizing	29658	1.50	4	125-250 Volt, D.C. Potential	13269	2.50
4	A.C. Synchronizing	13289	1.50	4	600 Volt, D.C. Potential	29653	2.50
4	A.C. Potential	29657	1.50	4	A.C. Potential	29655	2.50
6	A.C. Potential	29659	2.00	4	Synchronizing "Machine Running"	27369	2.50
6	A.C. Synchronizing	60429	2.00	4	Synchronizing "Machine Starting"	27368	2.50
8	A.C. Potential	29660	2.75	4	Synchronizing "Machine Running"	29654	2.50
				6	Synchronizing "Machine Starting"	59645	3.50
				6	Synchronizing "Machine Running"	59646	3.50

AIR BREAK SWITCHES

POTENTIAL AND SYNCHRONIZING PLUG SWITCHES (Concluded)

The plug switch and receptacle have entirely superseded other types of switches for making synchronizing and potential connections because of their convenience and reliability.

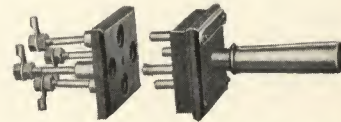
The standard synchronizing receptacle and plug are shown in the accompanying illustration.

POTENTIAL PLUG SWITCHES

Potential plug switches are used to connect a voltmeter to any one of a number of generator, battery or feeder circuits, or to any phase of a poly-phase circuit.

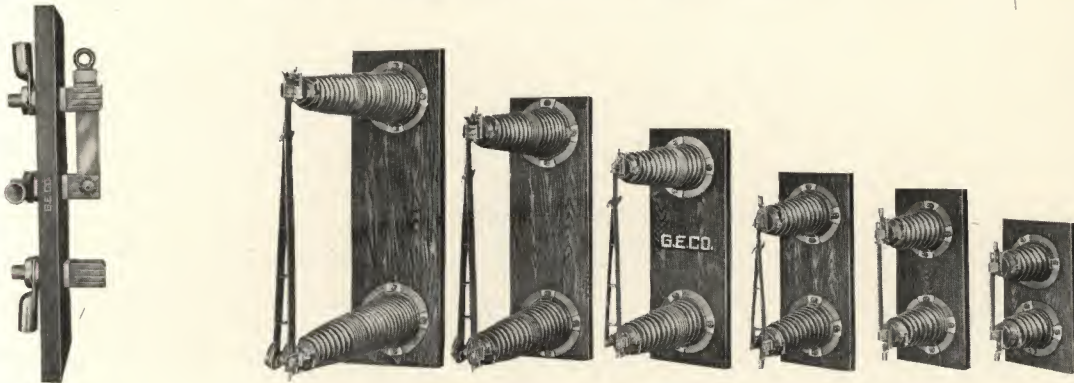
SYNCHRONIZING PLUG SWITCHES

Synchronizing plug switches are used for connecting a synchronism indicator or synchronizing lamps to the generator being synchronized.



Synchronizing Receptacle and Plug

TYPE L, FORM G-6 DISCONNECTING SWITCHES



22,000—110,000 VOLTS

Type L Form G 6 Disconnecting Switches for 2500 volts and under are arranged for mounting directly upon $1\frac{1}{2}$ inch base, and $1\frac{1}{2}$ inch or 2 inch panels, of marble. Switches do not include base or panel.

For 15,000 volts and above the switches are mounted on "Post Type" insulators of the highest grade glazed porcelain; single throw switches including two insulators and double throw switches three.

All insulators are given an arc over test (dry) of three times normal voltage.

Switches for 35,000 volts and upward, to secure rigid construction, have truss type blades.

Switches are secured to the insulators and insulators are fastened to their supports, by means of clamps. This method of construction facilitates installation and changes, obviates the use of cement and minimizes the danger of injury to the insulators.

Disconnecting switches should not be opened under load.

Safety catches to prevent the switch jarring open can be furnished, and for the single throw switches, stops to limit the distance which the switch may be opened can be supplied.

TYPE L, FORM G-6, DISCONNECTING SWITCHES

Voltage	Amp. Cap.	Poles	Throw	For Mounting on	CONNECTION		Cat. No.	List Price	Voltage	Amp. Cap.	Poles	Throw	For Mounting on	CONNECTION		Cat. No.	List Price
					Hinge Clips	Contact Clips								Hinge Clips	Contact Clips		
*2500	300	S.P.	S.T.	$1\frac{1}{2}$ " Marble Base $1\frac{1}{2}$ " or 2" Marble Panel	Front	Front	*76400	Prices on Application	2500	800	S.P.	S.T.	$1\frac{1}{2}$ " Marble Base $1\frac{1}{2}$ " or 2" Marble Panel	Back	Back	76415	Prices on Application
2500	300	S.P.	S.T.		Front	Front	76401		2500	800	S.P.	D.T.		Back	Back	76416	
2500	300	S.P.	D.T.		Front	Front	76402		2500	1200	S.P.	S.T.		Front	Front	76407	
2500	300	S.P.	S.T.		Back	Back	76411		2500	1200	S.P.	D.T.		Front	Front	76408	
2500	300	S.P.	D.T.		Back	Back	76412		2500	1200	S.P.	S.T.		Back	Back	76417	
2500	300	S.P.	S.T.		Front	Back	76398		2500	1200	S.P.	D.T.		Back	Back	76418	
2500	300	S.P.	S.T.		Back	Front	76397		2500	1500	S.P.	S.T.		Front	Front	76409	
2500	300	S.P.	D.T.		Back	Front	76399		2500	1500	S.P.	D.T.		Front	Front	76410	
2500	600	S.P.	S.T.		Front	Front	76403		2500	1500	S.P.	S.T.		Back	Back	76419	
2500	600	S.P.	D.T.		Front	Front	76404		2500	1500	S.P.	D.T.		Back	Back	76420	
2500	600	S.P.	S.T.		Back	Back	76413		2500	2000	S.P.	S.T.		Back	Back	76421	
2500	600	S.P.	D.T.		Back	Back	76414		2500	2000	S.P.	D.T.		Back	Back	76422	
2500	800	S.P.	S.T.		Front	Front	76405		2500	3000	S.P.	S.T.		Back	Back	76423	
2500	800	S.P.	D.T.		Front	Front	76406		2500	3000	S.P.	D.T.		Back	Back	76424	

* Includes $1\frac{1}{2}$ in. base.

AIR BREAK SWITCHES

TYPE "L" FORM G-6, DISCONNECTING SWITCHES (Concluded)

Voltage	Amp. Cap.	Poles	Throw	For Mounting on	CONNECTION		Cat. No.	List Price	Voltage	Amp. Cap.	Poles	Throw	For Mounting on	CONNECTION		Cat. No.	List Price
					Hinge Clips	Contact Clips								Hinge Clips	Contact Clips		
15000	300	S.P.	S.T.	Flat Surface	Front	Front	76433	Prices on Application	15000	800	S.P.	S.T.	Flat Surface	Front	Front	76437	Prices on Application
15000	300	S.P.	D.T.		Front	Front	76434		15000	800	S.P.	D.T.		Front	Front	76438	
15000	300	S.P.	S.T.		Back	Back	76442		15000	800	S.P.	S.T.		Back	Back	76446	
15000	300	S.P.	D.T.		Back	Back	76441		15000	800	S.P.	D.T.		Back	Back	76445	
15000	300	S.P.	S.T.	1" Pipe	Front	Back	76426		15000	800	S.P.	S.T.	1" Pipe	Back	Front	76429	
15000	300	S.P.	S.T.		Back	Front	76425		15000	800	S.P.	S.T.		Front	Back	76430	
15000	300	S.P.	S.T.		Front	Front	76449		15000	800	S.P.	S.T.		Front	Front	76662	
15000	300	S.P.	D.T.		Front	Front	76450		15000	800	S.P.	D.T.		Front	Front	76439	
15000	600	S.P.	S.T.	Flat Surface	Front	Front	76435		15000	1200	S.P.	S.T.	Flat Surface	Front	Front	76448	
15000	600	S.P.	D.T.		Front	Front	76436		15000	1200	S.P.	D.T.		Front	Front	76440	
15000	600	S.P.	S.T.		Back	Back	76444		15000	1200	S.P.	S.T.		Back	Back	76447	
15000	600	S.P.	D.T.		Back	Back	76443		15000	1200	S.P.	D.T.		Back	Back	76447	
15000	600	S.P.	S.T.	1" Pipe	Front	Back	76427		15000	1200	S.P.	S.T.	1" Pipe	Back	Front	76431	
15000	600	S.P.	S.T.		Front	Back	76428		15000	1200	S.P.	S.T.		Front	Back	76432	
15000	600	S.P.	S.T.		Front	Front	76660		15000	1200	S.P.	S.T.		Front	Front	76664	
15000	600	S.P.	D.T.		Front	Front	76661		15000	1200	S.P.	D.T.		Front	Front	76665	
22000	300	S.P.	S.T.	Flat Surface	Front	Front	76666	Prices on Application	70000	100	S.P.	S.T.	Flat Surface	Front	Front	76672	Prices on Application
22000	300	S.P.	D.T.		Front	Front	76667		70000	100	S.P.	D.T.		Front	Front	76673	
35000	300	S.P.	S.T.		Front	Front	76668		90000	100	S.P.	S.T.		Front	Front	76674	
35000	300	S.P.	D.T.		Front	Front	76669		110,000	100	S.P.	S.T.		Front	Front	76675	
45000	300	S.P.	S.T.		Front	Front	76670										
45000	300	S.P.	D.T.		Front	Front	76671										

ACCESSORIES

OPERATING HOOKS AND HANDLES

SAFETY CATCHES

SWITCH STOPS

Max. Voltage with which Hook should be used	Length of Handle in Ft.	Cat. No.	List Price	Voltage	Amp.	Cat. No.	List Price	Voltage	Amp.	Angle through which Switch may be opened in Degrees	Cat. No.	List Price
15,000	4	65849	Prices on Application	45,000	300	76677	Prices on Application	22,000	300	90	76681	Prices on Application
45,000	8	65850		70,000	100	76677		22,000	300	135	76682	
70,000	12	65851		90,000	100	76679		35,000	300	90	76681	
110,000	16	65852		110,000	100	76679		35,000	300	135	76682	
								45,000	300	135	76685	
								70,000	100	135	76685	
								90,000	100	135	76687	
								110,000	100	135	76687	

LAMINATED BRUSH TOGGLE SWITCHES

TYPE B, FORM C-3, 600 VOLT DIRECT CURRENT, BACK CONNECTED, WITHOUT BASE

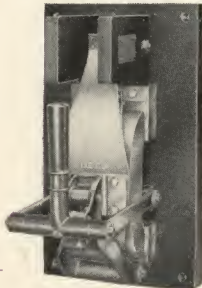
Brush toggle switches are designed especially for handling heavy currents on circuits up to and including 600 volts direct current. Their movable contact parts are in the form of laminated rolled copper brushes. The form of construction adopted permits of the opening and closing of the switch up to and including 10,000 amperes capacity with comparatively little physical effort.

The toggle form of mechanism which is used to operate the movable elements not only secures ease of operation but also makes the final contact under heavy pressure, thus insuring the most positive electrical connections.

These switches are provided with a secondary contact on which the circuit is broken, and with a magnetic blowout.

These switches are furnished with two contact nuts but no terminals.

All switches up to and including 6000 amperes are designed for mounting on 2 inch panels. The 6000 ampere switch can be mounted on 2½ inch panels if desired. All capacities above 6000 amperes are suitable for mounting on 2½ inch panels only.



4000 Ampere Single Pole
Brush Toggle Switch

Cat. No.	Description	Amp. Cap.	Approx. Ship. Wt. in Lb.	List Price	Cat. No.	Description	Amp. Cap.	Approx. Ship. Wt. in Lb.	List Price
35352	S.P.S.T.	2000	87	\$145.00	35356	S.P.S.T.	10000	500	\$545.00
35353	S.P.S.T.	4000	150	230.00	35357	S.P.D.T.	4000	280	380.00
35354	S.P.S.T.	6000	280	325.00	35358	S.P.D.T.	6000	410	510.00
35355	S.P.S.T.	8000	353	445.00					

G.E. PORCELAIN SPECIALTIES

PORCELAIN SPLIT KNOBS



Cat. No.
9420

Cat. No.	Description	Std. Pkg.	List Price per 1000
9419	Complete Knob for No. 18 to No. 6 Wire 1 in. from Wall	500	\$32.50
9352	Complete Knob for No. 18 to No. 6 Wire $\frac{1}{8}$ in. from Wall	500	28.00
9420	Complete Knob for No. 10 to No. 00 Wire 1 in. from Wall	500	45.00
6580	Complete Knob for No. 10 to No. 00 Wire $\frac{1}{8}$ in. from Wall	500	45.00
48519	Complete Knob for No. 18 to No. 8 Wire to hold wire 1 in. from wall	500	20.50
48520	Complete Knob for No. 18 to No. 8 Wire, with groove for tie wire, to hold wire 1 in. from wall	500	22.50



Cat. No.
48519

Cat. No.
48520

SINGLE-WIRE PORCELAIN CLEATS

FOR OPEN WIRING
WIRE HELD $\frac{1}{2}$ IN. FROM
WALL

FOR CONCEALED WIRING
WIRE HELD 1 IN. FROM
WALL

FOR OPEN OR
CONCEALED WIRING



Single-Wire Cleat

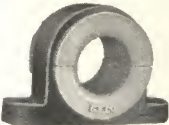
Cat. No.	Dia. of Cable Hole in Ins.	Std. Pkg.	List Price per 1000	Cat. No.	Dia. of Cable Hole in Ins.	Std. Pkg.	List Price per 1000	Cat. No.	Dia. of Cable Hole in Ins.	Std. Pkg.	List Price per 1000
43283	$\frac{1}{8}$ - $\frac{3}{8}$	250	\$26.68	44836	$\frac{1}{8}$ - $\frac{3}{8}$	250	\$36.68	43287	$\frac{1}{8}$ - $\frac{3}{8}$	250	\$95.00
43284	$\frac{1}{4}$ - $\frac{1}{2}$	250	40.00	44837	$\frac{1}{4}$ - $\frac{1}{2}$	250	50.00	43288	$\frac{1}{4}$ - $\frac{1}{2}$	250	120.00
43285	$\frac{1}{2}$ - $\frac{3}{4}$	250	48.00	44838	$\frac{1}{2}$ - $\frac{3}{4}$	250	60.00	43289	$\frac{1}{2}$ - $\frac{3}{4}$	250	160.00
43286	$\frac{3}{4}$ - 1	250	60.00	44839	$\frac{3}{4}$ - 1	250	72.00	61574	$1\frac{1}{2}$ - 2	250	400.00

TWO- AND THREE-WIRE PORCELAIN CLEATS



Three-Wire Cleat

Cat. No.	Description	Std. Pkg.	List Price per 1000
9172	Complete Cleat for 14 to 6 wire	1000	\$32.00
61686	Complete Cleat for 14 to 6 wire (New Code) to hold wires 1 in. from surface	1000	37.40
25704	Complete Cleat for 18 to 12 wire	1000	26.00
61687	Complete Cleat for 18 to 12 wire (New Code) to hold wires 1 in. from surface	1000	31.20



Porcelain Clamp Insulator (Two Pieces)

PORCELAIN CLAMP INSULATORS

The Porcelain Clamp Insulator consists of a cast iron seat, a steel strap, and a split porcelain bushing. The iron seat can be attached to any support before clamping the cable in place, thus giving the wireman the use of both hands while inserting the cable.

The General Electric Company's Clamp Insulators are strong enough to support the heaviest cable, and can be furnished for cables from $\frac{1}{8}$ in. to $3\frac{1}{2}$ in. in diameter.

TWO-PIECE CLAMP INSULATORS, WITHOUT CLAMP

Cat. No.	Description	Std. Pkg.	List Price per 100	Cat. No.	Description	Std. Pkg.	List Price per 100	Cat. No.	Description	Std. Pkg.	List Price per 100
9214	$\frac{1}{8}$ " hole	100	\$5.00	9229	1" hole	100	\$6.50	9244	2" hole	100	\$18.00
9215	$\frac{1}{4}$ " hole	100	5.00	9230	$1\frac{1}{8}$ " hole	100	6.50	65247	2 $\frac{1}{2}$ " hole	100	21.00
9216	$\frac{3}{8}$ " hole	100	5.00	9236	$1\frac{1}{4}$ " hole	100	11.00	64487	2 $\frac{1}{2}$ " hole	100	21.00
9221	$\frac{1}{2}$ " hole	100	5.50	9237	$1\frac{3}{8}$ " hole	100	11.00	64934	2 $\frac{3}{4}$ " hole	100	21.00
9222	$\frac{5}{8}$ " hole	100	5.50	9238	$1\frac{1}{2}$ " hole	100	11.00	64488	3" hole	100	25.00
9228	$\frac{7}{8}$ " hole	100	6.50	9243	1 $\frac{3}{4}$ " hole	100	18.00	64936	3 $\frac{1}{2}$ " hole	100	25.00

CLAMPS, COMPLETE, FOR INSULATORS

Cat. No.	Description	Std. Pkg.	List Price per 100	Cat. No.	Description	Std. Pkg.	List Price per 100
9499	For Nos. 9214, 9215, 9216	100	\$15.00	*22718	For Nos. 9214, 9215, 9216	100	\$90.00
9498	For Nos. 9221, 9222	100	18.00	*22750	For Nos. 9221, 9222	100	100.00
9361	For Nos. 9228, 9229, 9230	100	25.00	*22751	For Nos. 9228, 9229, 9230	100	165.00
9360	For Nos. 9236, 9237, 9238	100	35.00	*22752	For Nos. 9236, 9237, 9238	100	175.00
9359	For Nos. 9243, 9244	100	45.00	*22753	For Nos. 9243, 9244	100	185.00
64489	For Nos. 65247, 64487, 64934	100	55.00	*64490	For Nos. 65247, 64487, 64934	100	195.00
64938	For Nos. 64488, 64936	100	65.00	*64940	For Nos. 64488, 64936	100	205.00

* These differ from clamps, Cat. Nos. 9359, 9360, 9361, 9498, 9499, 64489 and 64938, in that the straps are composition metal instead of steel.

G.E. PORCELAIN SPECIALTIES

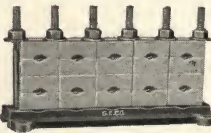
WALL BRACKET AND WALL HANGER INSULATOR CLAMP FOR HOLDING CABLES

Wall Bracket
Clamp and
Insulators

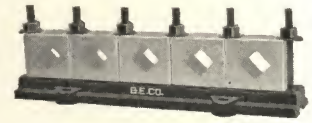
Cat. No.	Description	Std. Pkg.	List Price Each
11473	Wall bracket insulator clamp, for three 1½ in. cables, complete with clamping cap. (Does not include insulators).....	10	\$2.50
11474	Wall hanger insulator clamp, for three 1½ in. cables, complete with clamping cap. (Does not include insulators).....	10	2.50
11475	Porcelain insulator, for above, with 1½ in. hole for cable. (Includes two halves).....	100	.50

Wall Hanger
Clamp and
Insulators

RACK INSULATORS, FORM B

Two Tier Rack for Cables
Rack, Cat. No. 36302; Insula-
tors, Cat. No. 69010.

*Cat. No.	Description	Std. Pkg.	List Price
69009	For ½ in. to 1 in. cable.....	100	\$0.15
69010	For 1 in. to 2 in. cable.....	100	.25
49031	For ½ in. to 1 in. cable.....	100	.25
69011	For bus bars (used with racks, Cat. Nos. 69012, 69013, 51886, 69014, 33749, 69015, 36299, 36300, 36301, 36302, 36303, and 36304, for bus bars up to 2 in. x ½ in. and with Cat. Nos. 69016, 69017, 51887, 69018, 69019, 36305, 36306, 36307, 36308 and 36309, for bus bars up to 2½ in. x 1 in.	100	.30

One Tier Rack Insulators for
Bus Bars. Rack, Cat. No. 69014;
Insulators, Cat. No. 69011

* Cat. No. includes two halves.

INSULATOR RACKS

(An assortment of ten racks constitute a Standard Package.)

FOR ONE TIER OF INSULATORS

FOR TWO TIERS OF INSULATORS

Cat. No.	Description	List Price	Cat. No.	Description	List Price
69012	For 12, Cat. Nos. 49031, 69010 or 69011	\$5.50	36299	For 24, Cat. Nos. 49031, 69010 or 69011	\$5.85
69013	For 8, Cat. Nos. 49031, 69010 or 69011	4.00	36300	For 16, Cat. Nos. 49031, 69010 or 69011	4.25
51886	For 6, Cat. Nos. 49031, 69010 or 69011	3.75	36301	For 12, Cat. Nos. 49031, 69010 or 69011	4.00
69014	For 5, Cat. Nos. 49031, 69010 or 69011	2.65	36302	For 10, Cat. Nos. 49031, 69010 or 69011	2.75
33749	For 4, Cat. Nos. 49031, 69010 or 69011	2.25	36303	For 8, Cat. Nos. 49031, 69010 or 69011	2.30
69015	For 3, Cat. Nos. 49031, 69010 or 69011	1.80	36304	For 6, Cat. Nos. 49031, 69010 or 69011	1.90
69016	For 12, Cat. No. 69011	5.65	36305	For 24, Cat. No. 69011	6.00
69017	For 8, Cat. No. 69011	4.00	36306	For 16, Cat. No. 69011	4.25
51887	For 6, Cat. No. 69011	3.75	36307	For 12, Cat. No. 69011	4.00
69018	For 5, Cat. No. 69011	2.65	36308	For 10, Cat. No. 69011	2.75
69019	For 3, Cat. No. 69011	1.80	36309	For 6, Cat. No. 69011	1.90
69020	For 12, Cat. No. 69009	4.00	36294	For 24, Cat. No. 69009	4.25
69021	For 8, Cat. No. 69009	2.60	36295	For 16, Cat. No. 69009	2.75
51888	For 6, Cat. No. 69009	2.00	36296	For 12, Cat. No. 69009	2.25
69022	For 5, Cat. No. 69009	1.60	36297	For 10, Cat. No. 69009	1.75
49107	For 4, Cat. No. 69009	1.40	49239	For 8, Cat. No. 69009	1.50
69023	For 3, Cat. No. 69009	1.25	36298	For 6, Cat. No. 69009	1.30

STANDARD WOOD CROSS ARMS



These arms are made of yellow pine 3½ in. x 4½ in., and are given two coats of paint. They are bored for 1½ in. pins and ½ in. lag screws.

Cat. No.	No. of Pins	Length in Ft.	SPACING IN INCHES			Wgt. Lb.	List Price Each	Cat. No.	No. of Pins	Length in Ft.	SPACING IN INCHES			Wgt. Lb.	List Price Each
			Ends	Center	Sides						Ends	Center	Sides		
40179	2	3	4	28		8	Prices on Application	40182	4	6	4	24	20	18	Prices on Application
40180	4	4	4	16	12	12		40183	6	6	4	16	12	18	
40181	4	5	4	18	17	15									

Prices quoted on application for cross arms of special size or borings.

G.E. PORCELAIN SPECIALTIES

CROSS ARM BRACES

Cat. No.	Description	List Price per 1000	Cat. No.	Description	List Price per 1000	Cat. No.	Description	List Price per 1000
40184	20"x1 1/2"x1 1/2", plain.....	Prices on Application	40188	28"x1 1/2"x1 1/2", plain.....	Prices on Application	40192	24"x1 1/2"x1 1/2", plain.....	Prices on Application
40185	20"x1 1/2"x1 1/2", galvanized..		40189	28"x1 1/2"x1 1/2", galvanized..		40193	24"x1 1/2"x1 1/2", galvanized..	
40186	24"x1 1/2"x1 1/2", plain.....		40190	20"x1 3/4"x3/4", plain.....		40194	28"x1 1/2"x3/4", plain.....	
40187	24"x1 1/2"x1 1/2", galvanized..		40191	20"x1 3/4"x3/4", galvanized..		40195	28"x1 1/2"x3/4", galvanized..	

Prices do not include bolts or screws.

Cross Arm
Brace

RACKS AND HOOKS FOR STATION WIRING FOR USE WITH LEAD COVERED CABLES

Cat. No.	Description	List Price Each	Cat. No.	Description	List Price Each	Cat. No.	Description	List Price Each
11467	Cast iron rack, 3 feet long	\$2.50	11469	Cast iron rack, 1 foot long	\$0.50	11471	Malleable iron hook, for racks (for 1 1/2" cable)...	\$0.18
11468	Cast iron rack, 2 feet long	1.50	11470	Malleable iron hook, for racks (for 3/4" cable)....	.18	11472	Malleable iron hook, for racks (for 2 1/4" cable)...	.25



Rack and
Hooks

INSULATORS PORCELAIN INSULATORS



Cat. No. 9251 (No. 4 1/2)
Height, 1 7/8 inches; diameter,
1 1/2 inches; hole, 5/16 inch;
groove, 7/8 inch



Cat. No. 9248 (No. 8)
Height, 15/16 inch; diameter,
1 inch; hole, 1/4 inch;
groove, 5/16 inch



Cat. No. 8708 (No. 16)
Height, 1 inch; diameter, 1 3/4
inches; hole, 5/16 inch;
groove, 1/2 inch

Cat. No.	Description	Std. Pkg.	List Price Per 1000	Cat. No.	Description	Std. Pkg.	List Price Per 1000	Cat. No.	Description	Std. Pkg.	List Price Per 1000	Cat. No.	Description	Std. Pkg.	List Price Per 1000
9247	No. 6	5000	\$9.00	9252	No. 3 1/2	1000	\$34.68	9250	No. 5 1/2	5000	\$9.00	9255	No. 24	1000	\$41.34
9248	No. 8	5000	9.00	9253	No. 10 1/2	2000	20.00	8708	No. 16	500	26.68	9256	No. 26	800	74.68
9249	No. 11	3000	16.00	9254	No. 36	1800	36.00	9251	No. 4 1/2	2000	14.00	9257	No. 0	350	146.68



Cat. No. 40280



Cat. No. 40274



Cat. No. 40273

Cat. No.	Description	List Price Per 100
40273	Pony porcelain insulator, deep groove, double petticoat.....	\$13.25
40274	Porcelain insulator, for working voltage up to 3500 volts.....	
40280	Porcelain feeder insulator.....	

GLASS INSULATORS



Cat. No. 9322



Cat. No. 9310



Cat. No. 9311



Cat. No. 9315



Cat. No. 9309




Cat. No. 9312

INSULATORS

GLASS INSULATORS (Concluded)

Cat. No.	Description	List Price Per 1000	Cat. No.	Description	List Price Per 1000
9314	Double groove glass insulator.....	Prices on Application	9311	Extra deep groove double petticoat glass insulator.....	Prices on Application
9315	Cable glass insulator.....		9312	Pony deep groove double petticoat glass insulator.....	
9309	Deep groove glass insulator.....		9322	Pony glass insulator.....	
9310	Deep groove double petticoat insulator....		40271	Transposition glass insulator.....	

PORCELAIN TUBES

Inside Diam.	Outside Diam.	LIST PRICE PER 100																	
		Length in Ins. Under Head																	
		$\frac{1}{2}$	1	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4	5	6	8	10	12	14	16	18	20	22	24
	1	\$1.15	\$1.20	\$1.28	\$1.36	\$1.44	\$1.55	\$1.70	\$3.06	\$3.90	\$7.20	\$9.60	\$14.40	\$16.80	\$19.20	\$21.60	\$24.00	\$27.60	\$31.20
	1 $\frac{1}{2}$	1.32	1.35	1.38	1.45	1.56	1.82	1.97	3.60	4.68	8.40	10.80	15.60	19.20	21.60	24.00	26.40	30.00	33.60
	2		1.73	1.80	2.00	2.30	2.56	2.80	4.22	5.44	8.60	12.00	16.80	21.60	24.00	28.80	31.20	33.60	36.00
	2 $\frac{1}{2}$		2.00	2.20	2.40	2.54	2.80	3.44	5.10	6.22	10.80	14.40	19.20	24.00	28.80	33.60	36.00	38.40	40.80
	3		2.87	2.95	3.10	3.36	3.62	3.90	5.60	7.00	12.00	16.80	21.60	24.00	31.20	36.00	38.40	43.20	48.00
	3 $\frac{1}{2}$			4.55	4.80	4.98	5.24	5.52	8.28	9.34	16.80	19.20	26.40	28.80	36.00	40.80	45.60	49.20	52.80
	4					12.26	13.80	15.60	18.10	19.20	24.00	31.20	45.60	52.80	62.40	72.00	79.20	86.40	93.60
	4 $\frac{1}{2}$					15.60	17.40	19.20	25.30	31.20	38.40	45.60	69.20	81.60	91.20	102.20	112.80	123.60	134.40
	5					19.85	22.05	23.95	34.15	45.35	58.10	66.00	102.10	121.40	132.00	158.60	175.15	192.95	210.20
	5 $\frac{1}{2}$					23.45	25.85	27.70	41.70	57.95	73.90	81.80	128.00	153.10	163.70	195.10	216.00	237.60	259.20
	6					26.80	29.60	31.50	48.85	70.55	89.80	97.70	154.00	184.80	195.40	231.40	256.30	282.20	308.20
	6 $\frac{1}{2}$					30.35	32.55	35.30	56.80	83.20	105.60	113.50	180.00	216.50	227.00	267.60	296.60	326.90	357.10

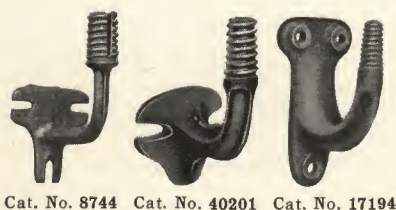
Lots of 1000 and over, of one size, constitute a standard package quantity.
Tube list dimensions conform to the new rules of the Underwriters' Board.

TUBE LIST

Standard Package in Tubes consists as follows:
All lengths up to and including 6 inches long and up to and including $\frac{3}{4}$ -inch hole, barrel lots or same quantity when packed in cases.
All lengths from 7 inches to 14 inches long inclusive and up to and including $\frac{3}{4}$ -hole, 500 lots.
All lengths from 14 inches to 24 inches long inclusive and up to and including $\frac{3}{4}$ -inch hole, 200 lots.
All lengths and sizes not specified above, 100 lots.
For Tubes Glazed add 50 per cent. to the net prices.
For Split Tubes add 25 per cent. to the net prices.

INSULATOR BRACKETS

Of these brackets, Cat. No. 8744 is intended for light feeder wires. Cat. No. 40201 is a heavier bracket with curved back for pole use, and will carry the largest size of feeder. Cat. No. 17194 is extra heavy and is made of gray iron.



Cat. No. 8744 Cat. No. 40201 Cat. No. 17194

Cat. No.	Description	List Price Per 100	Cat. No.	Description	List Price Per 100
8744	Side bracket.....	Prices on Application	17194	Side bracket, extra heavy..	Prices on Application
40201	Side bracket, curved back, heavy.....				

WOODEN BRACKETS AND PINS



Cat. No. 40252 Cat. No. 8749

Cat. No.	Description	List Price	Cat. No.	Description	List Price
8745	Bracket, 10", oak painted.....	Prices on Application	8841	Bracket, 12", locust, unpainted..	Prices on Application
8746	Bracket, 10", oak, unpainted....		8749	Pin, 1 $\frac{1}{2}$ ", oak, painted.....	
7798	Bracket, 12", oak, painted.....		8750	Pin, 1 $\frac{1}{2}$ ", oak, unpainted.....	
8747	Bracket, 12", oak, unpainted....		8751	Pin, 1 $\frac{1}{2}$ ", locust, unpainted.....	
8840	Bracket, 10", locust, unpainted..		40252	Pin, 1 $\frac{1}{2}$ " x 10", locust.....	



Cat. No. 8747

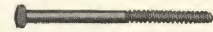
INSULATORS RUBBER HOOK

Cat. No.	Description	List Price
8752	Rubber hook, each.....	Price on Application



Cat. No. 8753

POLE STEPS AND LAG SCREWS



Cat. No. 13060

Cat. No.	Description	List Price	Cat. No.	Description	List Price
8753	Fetter's drive pole step, plain, $\frac{3}{8}$ " x 8", per 100.....	Prices on Application	13060	Lag screw, $\frac{1}{4}$ " x 7", for cross arms, per 100.....	Prices on Application
8754	Fetter's drive pole step, galvanized, $\frac{3}{8}$ " x 8", per 100.....		13061	Lag screw, $\frac{1}{4}$ " x 8", for cross arms, per 100.....	
8755	Pointed pole step, $\frac{3}{8}$ " x 10", per 100.....		10300	Washer for $\frac{1}{8}$ " lag screw, per 100 lbs.*.....	
13058	Lag screw, $\frac{1}{8}$ " x 2", for cross arm braces, per 100....		11671	Washer for $\frac{1}{2}$ " lag screw, per 100 lbs.†.....	
13059	Lag screw, $\frac{1}{8}$ " x 3", for cross arm braces, per 100....				

* Average quantity per 100 lbs., 2683.

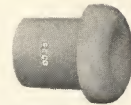
† Average quantity per 100 lbs., 1315.

PORCELAIN WALL INSULATORS



Cat. No. 16819

*Cat. No.	Description	Std. Pkg.	List Price Per 100	*Cat. No.	Description	Std. Pkg.	List Price Per 100
16821	Split $1\frac{1}{2}$ " hole	50	\$45.00	16820	Solid $1\frac{1}{2}$ " hole	45	\$50.00
16819	Split $1\frac{3}{4}$ " hole	50	45.00	16818	Solid $1\frac{1}{2}$ " hole	50	50.00
16817	Split $2\frac{1}{4}$ " hole	40	50.00	16816	Solid $2\frac{1}{4}$ " hole	40	55.00



Cat. No. 16818

* Length is 4" under head, and diameter of shank is $3\frac{3}{4}$ " in all sizes.

PORCELAIN FLOOR INSULATORS



Cat. No. 9327

Cat. No.	DIMENSIONS IN INS.			Std. Pkg.	List Price Per 100
	Diameter Hole	Diameter Shank	Length Under Head		
9327	$\frac{3}{4}$	1	$3\frac{1}{4}$	100	\$15.00
16824	1	3	5	22	125.00
16823	$1\frac{1}{4}$	3	5	30	120.00
16822	$2\frac{1}{4}$	3	5	25	115.00



Cat. No. 16822

TWO-WIRE PORCELAIN CLEATS AND CAPS FOR MARINE WIRING



Two-Wire Cleat and Caps

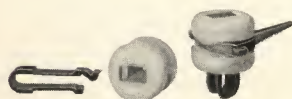
Cat. No.	Description	Std. Pkg.	List Price
10943	With $\frac{1}{2}$ " maximum, $\frac{1}{4}$ " minimum hole for cable. (Includes two halves).....	250	\$0.08
10944	With $\frac{1}{2}$ " maximum, $\frac{3}{8}$ " minimum hole for cable. (Includes two halves).....	250	.08
10945	Brass cap for cleats.....	250	.12

PORCELAIN TREE INSULATOR

This insulator was designed primarily for use in tree wiring, but will be found suitable for many other purposes. It is often desirable to shift the wires, or change a line without removing the insulators, and to such cases the Tree Insulator will be found to readily adapt itself. The loop which holds the wire is finished smooth on the inside so as not to injure the insulation, and will permit the wire to slip easily back and forth as the tree sways. When installing, the wire is simply dropped into the iron loop which is then pushed lengthwise through the porcelain insulator and the cam lock snapped into position. To remove the iron loop, a screw-driver is inserted in the slot in the cam lock, and the cam pried open. This insulator will be found a convenient device for temporary testing circuits, where the wires have, necessarily, to be strung repeatedly.

INSULATORS

PORCELAIN TREE INSULATOR (Concluded)



Insulator, Yoke and Cam, and Supporting Prong

Cat. No.	Description	Std. Pkg.	List Price
69024	Porcelain insulator with yoke and cam.....	100	\$0.75
69025	Porcelain insulator only.....	100	.25
69026	Supporting prong only—not included in Cat. No. 69024.....	100	.06

I BEAM INSULATORS



An I Beam Section with Insulators in Place

The insulators illustrated have been designed particularly for insulating cables which pass through I or deck beams. The insulator consists of a porcelain bushing, well proportioned with regard to strength and leakage surface, and a composition clamp which threads on the bushing, and holds tightly against the beam, thus preventing the insulator from working loose and slipping out. The clamp is held in position by means of a clamping screw. The beams can be drilled before being installed and the insulator put in place and the cables drawn in after the beams are placed in position.

Cat. No.	DIMENSIONS IN INS.			Std. Pkg.	List Price Per 100	Cat. No.	DIMENSIONS IN INS.			Std. Pkg.	List Price Per 100
	Diameter		Under Head				Diameter		Under Head		
	Hole	Shank					Hole	Shank			
21669	$\frac{1}{2}''$	$2\frac{1}{16}''$	$1\frac{3}{4}''$	100	\$12.50	21673	$1\frac{1}{2}''$	$3\frac{1}{16}''$	2"	100	\$30.00
21670	$\frac{3}{8}''$	$2\frac{1}{16}''$	$1\frac{3}{4}''$	100	12.50	21674	$1\frac{3}{8}''$	$3\frac{1}{16}''$	2"	100	30.00
21671	$1''$	$2\frac{1}{16}''$	$1\frac{3}{4}''$	100	12.50	21675	$2''$	$3\frac{1}{16}''$	2"	100	30.00
21672	$1\frac{1}{2}''$	$3\frac{1}{16}''$	2"	100	30.00						

CLAMPING RING WITH SCREW

Cat. No.	Description	Std. Pkg.	List Price Per 100	Cat. No.	Description	Std. Pkg.	List Price Per 100
21676	For Cat. Nos. 21669, 21670, 21671	100	\$25.00	21677	For Cat. Nos. 21672, 21673, 21674, 21675.....	100	\$27.50

OIL SWITCHES



A wide and thorough knowledge of the conditions to be met, and years of experience in designing and building oil break switches which have fulfilled every requirement, have enabled the General Electric Company to place upon the market a very complete and comprehensive line of oil switches, a portion of which is covered in the following pages. This line comprises switches for service on potentials from 600 to 110,000 volts, and in current capacities up to 3000 amperes.

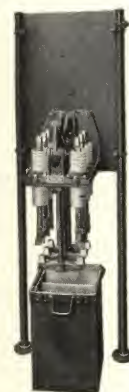
Liberal design and rugged construction, they combine every essential of reliability and satisfactory operation.

Space limitation makes it impossible to give a description of the individual types but further information will be found in various other publications of this Company.

Only oil switches for potentials up to and including 15,000 volts, and for kilowatt rupturing capacities of 13,800 kw. and under, are covered in this catalogue, as in undertakings involving potentials and capacities exceeding these limits, local conditions have considerable bearing upon the type of switch to be used, and it is recommended in such cases that complete information be forwarded to the nearest sales office of the Company, experience having demonstrated that the customer's interests are best conserved by this method. For this same reason motor-, solenoid-, float- and pneumatically-operated switches are not covered in this publication.

By the use of the relays as described on pages 318-319 various arrangements of automatic oil switches may be secured, such as protection against reversal of current etc.

Information, recommendations and prices will be promptly furnished upon request.



OIL SWITCHES

INSTRUCTIONS FOR ORDERING OVERLOAD RELEASE (AUTOMATIC) OIL SWITCHES

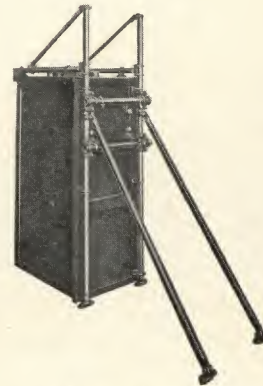
1. The catalogue number of the switch must always be given.
2. The catalogue number or rating of the series coils or current transformers desired must always be given.

If low voltage release is desired:

3. The normal voltage and the frequency of the circuit on which the switch is to be used must be given.

If the above conditions are not complied with, switches will be shipped with series coils or transformers of the same rating as the switch, if possible, or the next higher rating. See tables of series coils and current transformers, page 307.

The catalogue number of the switch does not determine the proper series coil or transformer that must be used in order to secure a range of calibration (tripping points) suitable to the circuit on which it is to be used.



Asbestos Lumber Cell

STANDARD CURRENT TRANSFORMERS FOR TYPE F, FORMS K-2, K-3 AND K-4 OIL SWITCHES

AMP. CAP. OF SWITCH			TRANSFORMER					
K-2	K-3	K-4	Amp. Cap.	Ratio	CAT. NO.			
					* 2500 Volts	* 4500 Volts	* 7500 Volts	* 15,000 Volts
300	100	300	5	1:1		41251	41251	41265
300	100	300	10	2:1		41252	41252	41266
300	100	300	15	3:1		41253	41253	41267
300	100	300	20	4:1		41254	41254	41268
300	100	300	30	6:1		41255	41255	41269
300	100	300	40	8:1		41256	41256	41270
300	100	300	60	12:1		41257	41257	41271
300	100	300	80	16:1		41258	41258	41272
300	100	300	100	20:1		41259	41259	41273
300	200	300	150	30:1		41260	41260	41274
300	200	300	200	40:1		41261	41261	41275
300	300	300	300	60:1		41262	41262	41276
500	500	500	400	80:1		41263	41263	41277
500	500	500	600	120:1		41264	41264	41278
800		800	800	160:1	41299		41299	
1000			1000	200:1	41300			

* Normal rated voltage of switches with which transformers may be used.

The graduations on the calibrating scales of automatic oil switches actuated by trip coils operated by current transformers are 4, 6, 9, 12 and 15 amperes, and represent secondary current values.

These values multiplied by the ratio of the current transformers used, give the corresponding primary currents for straight connections. If two current transformers are cross connected (Fig. 3, page 308) to a single coil, the coil operates on the resultant current of the two transformers, and the calibration value of the coil should be divided by the $\sqrt{3}$, if three-phase, or the $\sqrt{2}$, if two-phase and multiplied by the ratio of the transformers.

STANDARD SERIES TRIP COILS FOR TYPE F, FORMS K-3 AND K-7 OIL SWITCHES FORM K-3 OIL SWITCHES—2500 VOLTS AND UNDER

Amp. Cap. of Switch	COIL				Amp. Cap. of Switch	COIL			
	Cat. No.	Max. Continuous Amp. Cap.	Min. Tripping Point	Max. Tripping Point		Cat. No.	Max. Continuous Amp. Cap.	Min. Tripping Point	Max. Tripping Point
100 or 200	65967	5	5	15	100 or 200	65970	80	80	240
	38106	10	10	30		38112	100	100	300
	65968	15	15	45		38113	150	150	450
	38107	20	20	60		38114	200	200	600
	38108	30	30	90		65971	100	100	300
	38109	40	40	120		38121	200	200	600
	65969	60	60	180	300	38122	300	300	800

FORM K-7 OIL SWITCHES—600 VOLTS AND UNDER

50	76801	4	2	12	50 100 or 200 300	76806	50	25	150
	76802	8	4	24		76807	100	50	300
	76803	12	6	36		76808	200	100	600
	76804	20	10	60		76808	200	100	600
	76805	25	13	75		76809	300	150	900

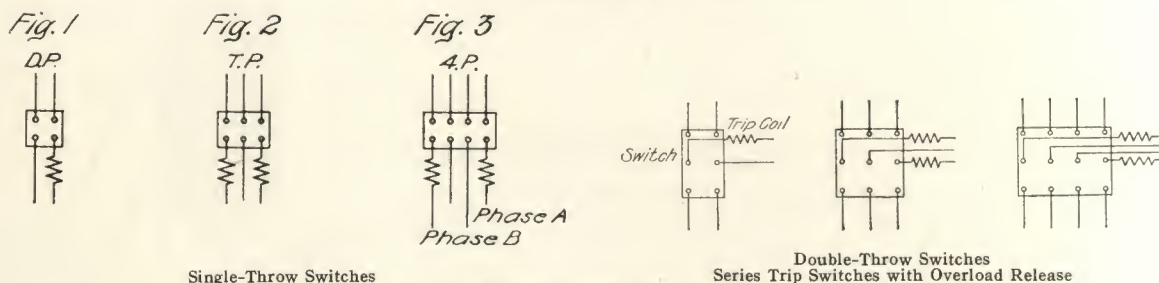
FORM K-7 OIL SWITCHES—2500 VOLTS AND UNDER

50	76810	10	5	30	50	76812	50	25	150
	76811	25	13	75					

The graduations on the calibrating scales of automatic oil switches actuated by series trip coils represent actual current values.

OIL SWITCHES

STANDARD SERIES TRIP COILS (Continued)

FOR TYPE F FORM K-3 OIL SWITCHES
CONNECTIONS

STANDARD TRIP COILS

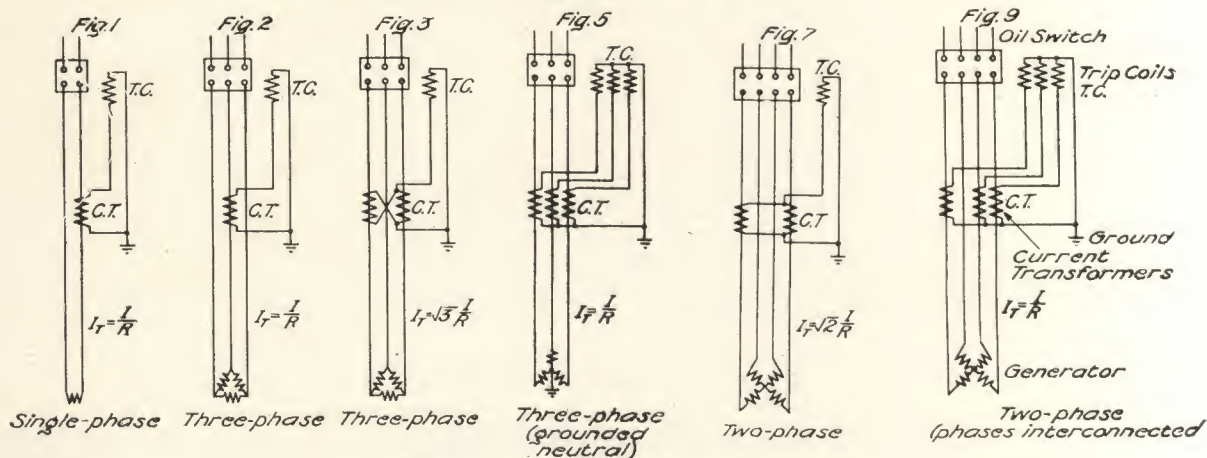
FOR TYPE F FORMS K-2, K-3 AND K-4 OIL SWITCHES

When relays are used with automatic oil switches the trip coil of the switch should be set at its minimum point of calibration and the relay at a higher point, dependent upon the overload at which it is desired that the relay shall operate.

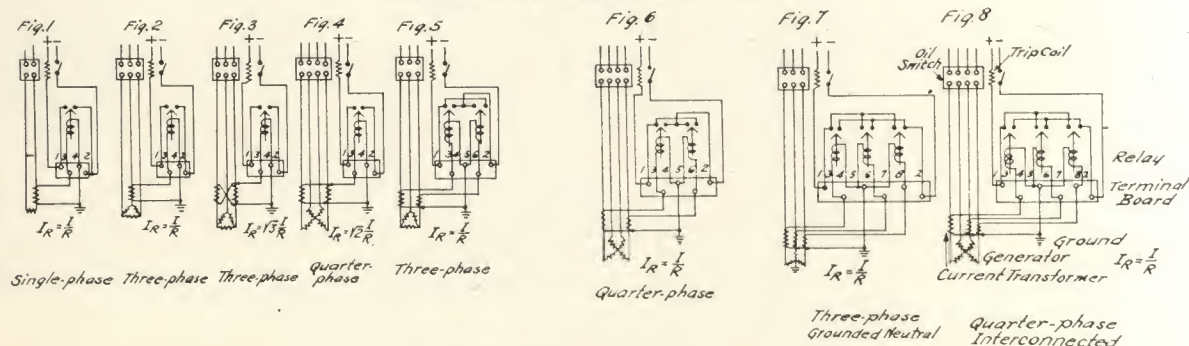
Trip coils actuated by an auxiliary circuit (125-250 or 600 volts direct current, 110 or 220 volts alternating current) can be furnished for automatic overload release oil switches.

When trip coils of this type are employed, circuit closing (normally open) type overload relays are connected in the secondaries of the current transformers, and circuit opening auxiliary switches must be furnished to open the tripping circuit when the oil switch is opened.

CONNECTIONS



Type F, Forms K-2, K-3, and K-4—Hand Operated



I = Current in Primary of Current Transformer
 I_R = Current in Relay Coil
 R = Ratio of Current Transformer

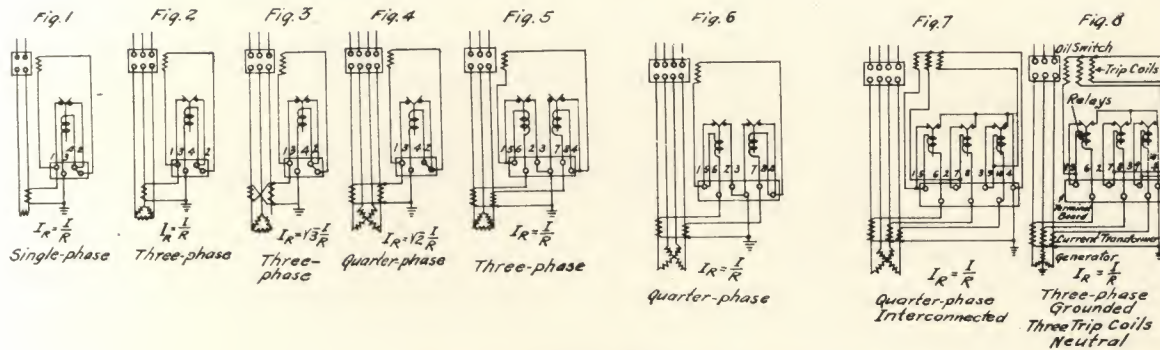
Type P, Forms B and C Overload Relays—Circuit-Closing

OIL SWITCHES

STANDARD SERIES TRIP COILS (Concluded)

FOR TYPE F FORMS K-2, K-3 AND K-4 OIL SWITCHES

CONNECTIONS (Concluded)



Type P, Forms B-2 and C-2 Overload Relays—Circuit-Opening

RUPTURING CAPACITY

While an oil switch may be insulated for a given potential and constructed to carry a definite amount of current, it does not follow that it will rupture a circuit of corresponding normal capacity, in the event of a short circuit. Any source of electrical energy has a reserve power greatly in excess of its normal capacity and a switch may, therefore, be required to interrupt not merely the normal energy delivered to the circuit in which it is connected, but the entire current which all the generators and synchronous apparatus in parallel are capable of developing on short circuit.

Under short circuit conditions, alternating current generators develop instantaneously many times the normal full load current and the sustained short circuit current is ordinarily two and one-half to three times the normal current. Instantaneous automatic switches must be capable of rupturing the circuit when the current is at the maximum, whereas non-automatic switches have to interrupt only the sustained short circuit current. The following table of rupturing capacities is based on exhaustive tests extending over a period of several years and on actual operating records. The limits given are conservative and are in terms of the **normal full load capacity** of the machines.

RUPTURING LIMITS OF TYPE F OIL SWITCHES

NORMAL FULL LOAD GENERATOR OR BUS-BAR CAPACITY WITH WHICH SWITCHES MAY BE USED

THREE-PHASE

FOR 2500 VOLT SERVICE

FOR 4500 VOLT SERVICE

KW. RUPTURING CAPACITY						KW. RUPTURING CAPACITY					
SWITCH		Non-Automatic or Automatic With *Time Limit Relay		Automatic (Instantaneous)		SWITCH		Non-Automatic or Automatic With *Time Limit Relay		Automatic (Instantaneous)	
Form	Amp. Cap.	On Panel or on Framework	In Cell	On Panel or on Framework	In Cell	Form	Amp. Cap.	On Panel or on Framework	In Cell	On Panel or on Framework	In Cell
K-3	1-200 A	5300		2100		K-3	1-200 A	4700		1900	
K-3	3-500 A	5900		2400		K-3	3-500 A	5300		2100	
K-2	3-500 A	5900	6800	2400	2800	K-2	3-500 A	5300	6000	2100	2400
K-2	800-1000 A	7700	8800	3100	3500	K-4	3-5-800	11000	12600	4400	5000
K-4	3-5-800	12000	13800	4800	5500	H-3	3-5-8-1200-2000		{ above 12600		{ above 5000
H-3	3-5-8-1200-2000-3000		{ above 13800		{ above 5500						

FOR 7500 VOLT SERVICE						FOR 15000 VOLT SERVICE					
K-2	3-500 A	4300	4900	1700	1900	K-2	3-500 A	2100	2400	900	1000
K-4	3-5-800 A	9500	11000	3800	4400	K-4	3-5-800 A	6500	7500	2600	3000
H-3	3-5-8-1200-2000		{ above 11000		{ above 4400	H-3	3-5-8-1200-2000		{ above 7500		{ above 3000

FOR 22000 VOLT SERVICE						FOR 35000 VOLT SERVICE					
K-6	300 A		6200	2500		K-6	100 A		15000	6000	
H-3	300, 500 A		{ above 6200	{ above 2500		H-3	3-500 A		{ above 15000	{ above 6000	

*Relay must be set for not less than 1½ seconds delay.

OIL SWITCHES

RUPTURING LIMITS OF TYPE F OIL SWITCHES (Concluded)

NORMAL FULL LOAD GENERATOR OR BUS-BAR CAPACITY WITH WHICH SWITCHES MAY BE USED

THREE-PHASE

FOR 45000 VOLTS SERVICE

FOR 70000 VOLT SERVICE

SWITCH		RUPTURING KW. CAPACITY				SWITCH		RUPTURING KW. CAPACITY			
		Non-Automatic or Automatic With *Time Limit Relay		Automatic (Instantaneous)				Non-Automatic or Automatic With *Time Limit Relay		Automatic (Instantaneous)	
Form	Amp. Cap.	On Panel or on Framework	In Cell	On Panel or on Framework	In Cell	Form	Amp. Cap.	On Panel or on Framework	In Cell	On Panel or on Framework	In Cell
K-6 K-10 T	100 A 300 A 300 A		{ 10000 above 20000		4000	K-10 T	100 A 100 A		{ above 20000		
FOR 110,000 VOLT SERVICE						*Relay must be set for not less than 1½ seconus delay.					
K-10 T	100 A 100 A		{ above 20000								

THREE-PHASE

Form	Amp. Cap.	Voltage	RUPTURING KW. CAPACITY		Form	Amp. Cap.	Voltage	RUPTURING KW. CAPACITY	
			Non-Automatic on Panel or Framework	Automatic on Panel or Framework				Non-Automatic on Panel or Framework	Automatic on Panel or Framework
K-7	50-200	600	3500	1400	P	200	7500	4000	
K-7	300	600	4200	1700	P	200	15000	4000	
K-7	50	2500	3500	1400	P-3	50	600	† 25	
P	100	4500	4000		P-5	50	600	† 25	

† Horse-power.

For single-phase multiply above by .75; for quarter-phase by 1.5; for switches used on line voltages less than that for which ratings are given use kilowatt capacity corresponding to next higher voltage rating. The capacity of switches for intermediate voltages can be obtained by proportion.

Switches listed above are capable of opening heavy overloads or short circuits on systems where the NORMAL FULL LOAD RATING of all the generators connected to the system or section does not exceed the kilowatt ratings given, except for H-3 and T switches, for which the minimum rating is given, and the P-3 and P-5 switches, the horse-power rating of which refers to individual motors.

The General Electric Company does not recommend the installation of apparatus on a panel or switchboard, when that apparatus is subjected to a potential in excess of 2500 volts; for such installations remote control apparatus is recommended.

TYPE F FORMS K-2 AND K-4 OIL SWITCHES

HAND OPERATED WITHOUT OVERLOAD RELEASE—NON-AUTOMATIC

DOUBLE-POLE, SINGLE THROW, FORM K-2

Amp. Cap.	Voltage	FOR PANEL MOUNTING				FOR REMOTE CONTROL					
		Ship. Wt. Lb.	Switch and Operating Mechanism for Mounting on 2 In. Panel		Ship. Wt. Lb.	Operating Mech. for Mounting on 1½ in. or 2 in. Panel					
			Cat. No.	List Price		Switch on Pipe Framework Fig. 1		Switch on Pipe Framework for Mounting in Asbestos Lumber Cells Fig. 2		Switch on Flat Surface for Mounting in Brick Cells Fig. 3	
300	15000	280	63369	Prices on Application	400	63314	Prices on Application	63330	Prices on Application	64562	Prices on Application
500	15000	300	63377		420	63317		63333		64565	
800	2500	420	63385		540	65271		63336			
1000	2500	460	63390		580	65273		63338			

DOUBLE-POLE, SINGLE THROW, FORM K-4

300	15000	430	63871	Prices on Application	530	63808	Prices on Application	63835	Prices on Application	64590	Prices on Application
500	15000	450	63879		550	63811		63838		64593	
800	15000	470	63887		570	63814		63841		64596	

TRIPLE-POLE, SINGLE THROW, FORM K-2

300	15000	320	63370	Prices on Application	430	63315	Prices on Application	63331	Prices on Application	64563	Prices on Application
500	15000	350	63378		460	63318		63334		64566	
800	2500	470	63386		580	65272		63337			
1000	2500	530	63391		640	65274		63339			

To insure safety in operation, controlling apparatus subject to potentials in excess of 2500 volts should not be mounted directly on the switchboard. For kilowatt capacity of system with which switches may be used, see page 309.

OIL SWITCHES

TYPE F FORMS K-2 AND K-4 OIL SWITCHES (Continued)

HAND OPERATED WITHOUT OVERLOAD RELEASE—NON AUTOMATIC

TRIPLE-POLE, SINGLE THROW, FORM K-4

Amp. Cap.	Voltage	FOR PANEL MOUNTING			Ship. Wt. Lb.	FOR REMOTE CONTROL					
		Ship. Wt. Lb.	Switch and Operating Mechanism for Mounting on 2 In. Panel			Operating Mech. for Mounting on 1½ in. or 2 in. Panel					
			Cat. No.	List Price		Switch on Pipe Framework Fig. 1		Switch on Pipe Framework for Mounting in Asbestos Lumber Cells Fig. 2		Switch on Flat Surface for Mounting in Brick Cells Fig. 3	
						Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
300	15000	480	63872	Prices	580	63809	Prices	63836	Prices	64591	Prices
500	15000	490	63880	on	590	63812	on	63839	on	64594	on
800	15000	520	63888	Application	620	63815	Application	63842	Application	64597	Application

FOUR-POLE, SINGLE THROW, FORM K-2

300	15000	390	63371	Prices	500	63316	Prices	63332	Prices	64564	Prices
500	15000	410	63379	on	520	63319	on	63335	on	64567	on
				Application			Application		Application		Application

FOUR-POLE, SINGLE THROW, FORM K-4

300	15000	600	63873	Prices	700	63810	Prices	63837	Prices	64592	Prices
500	15000	630	63881	on	730	63813	on	63840	on	64595	on
800	15000	660	63889	Application	760	63816	Application	63843	Application	64598	Application

HAND OPERATED WITH OVERLOAD RELEASE—AUTOMATIC
WITH ONE TRIP COIL AND CURRENT TRANSFORMERS

DOUBLE-POLE, SINGLE THROW, FORM K-2

300	7500	340	63372	Prices on Application	450	65296	Prices on Application	65812	Prices on Application	65830	Prices on Application
500	7500	360	63380		470	65801		65817		65835	
300	15000				460	63320		63340		64568	
500	15000				480	63323		63343		64571	
800	2500	470	63387		580	65806		63346			
1000	2500	510	63392		620	65809		63348			

DOUBLE-POLE, SINGLE THROW, FORM K-4

300	7500	490	63874	Prices on Application	600	65972	Prices on Application	65982	Prices on Application	66000	Prices on Application
500	7500	510	63882		620	65977		65987		66005	
800	7500	530	63890		640	63823		63850		64605	
300	15000				600	63817		63844		64599	
500	15000				620	63820		63847		64602	

TRIPLE-POLE, SINGLE THROW, FORM K-2

300	7500	420	63373	Prices on Application	530	65297	Prices on Application	65813	Prices on Application	65831	Prices on Application
500	7500	450	63381		560	65802		65818		65836	
300	15000				550	63321		63341		64569	
500	15000				580	63324		63344		64572	
800	2500	550	63388		660	65807		63347			
1000	2500	620	63393		730	65810		63349			

TRIPLE-POLE, SINGLE THROW, FORM K-4

300	7500	580	63875	Prices on Application	690	65973	Prices on Application	65983	Prices on Application	66001	Prices on Application
500	7500	590	63883		700	65978		65988		66006	
800	7500	610	63891		720	63824		63851		64606	
300	15000				700	63818		63845		64600	
500	15000				720	63821		63848		64603	

To insure safety in operation, controlling apparatus subject to potentials in excess of 2500 volts should not be mounted directly on the switchboard.

For kilowatt capacity of system with which switches may be used, see page 309.

OIL SWITCHES

TYPE F FORMS K-2 AND K-4 OIL SWITCHES (Continued)

HAND OPERATED WITH OVERLOAD RELEASE—AUTOMATIC
WITH ONE TRIP COIL AND CURRENT TRANSFORMER

FOUR-POLE, SINGLE THROW, FORM K-2

Amp. Cap.	Voltage	FOR PANEL MOUNTING			Ship. Wt. Lb.	FOR REMOTE CONTROL							
		Ship. Wt. Lb.	Switch and Operating Mechanism for Mounting on 2 In. Panel			Operating Mech. for Mounting on 1½ in. or 2 in. Panel							
						Switch on Pipe Framework Fig. 1		Switch on Pipe Framework for Mounting in Asbestos Lumber Cells Fig. 2		Switch on Flat Surface for Mounting in Brick Cells Fig. 3			
			Cat. No.	List Price		Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price		
300	7500	490	63374	Prices on Application	590	65298	Prices on Application	65814	Prices on Application	65832	Prices on Application		
500	7500	510	63382		610	65803		65819		65837			
300	15000				610	63322		63342		64570			
500	15000				630	63325		63345		64573			

FOUR-POLE, SINGLE THROW, FORM K-4

300	7500	710	63876	Prices on Application	810	65974	Prices on Application	65984	Prices on Application	66002	Prices on Application
500	7500	730	63884		830	65979		65989		66007	
800	7500	760	63892		860	63825		63852		64607	
300	15000				830	63819		63846		64601	
500	15000				860	63822		63849		64604	

To insure safety in operation, controlling apparatus subject to potentials in excess of 2500 volts should not be mounted directly on the switchboard.

For kilowatt capacity of system with which switches may be used, see page 309.

HAND OPERATED WITH OVERLOAD RELEASE—AUTOMATIC
WITH THREE TRIP COILS AND CURRENT TRANSFORMERS

TRIPLE-POLE, SINGLE THROW, FORM K-2

300	7500	480	63375	Prices on Application	590	65299	Prices on Application	65815	Prices on Application	65833	Prices on Application
500	7500	510	63383		620	65804		65820		65838	
300	15000				630	63326		63350		64574	
500	15000				660	63328		63352		64576	
800	2500	600	63389		720	65808		63355			
1000	2500	700	63394		800	65811		63356			

TRIPLE-POLE, SINGLE THROW, FORM K-4

300	7500	610	63877	Prices on Application	750	65975	Prices on Application	65985	Prices on Application	66003	Prices on Application
500	7500	680	63885		770	65980		65990		66008	
800	7500	710	63893		800	63833		63857		64612	
300	15000				780	63827		63853		64608	
500	15000				800	63830		63855		64610	

FOUR-POLE, SINGLE THROW, FORM K-2

300	7500	570	63376	Prices on Application	660	65800	Prices on Application	65816	Prices on Application	65834-	Prices on Application
500	7500	590	63384		680	65805		65821		65839	
300	15000				690	63327		63351		64575	
500	15000				710	63329		63354		64577	

FOUR-POLE, SINGLE THROW, FORM K-4

300	7500	790	63878	Prices on Application	860	65976	Prices on Application	65986	Prices on Application	66004	Prices on Application
500	7500	810	63886		880	65981		65991		66009	
800	7500	850	63894		910	63834		63858		64613	
300	15000				890	63828		63854		64609	
500	15000				930	63831		63856		64611	

To insure safety in operation, controlling apparatus subject to potentials in excess of 2500 volts should not be mounted directly on the switchboard.

For kilowatt capacity of system with which switches may be used, see page 309.

OIL SWITCHES

TYPE F, FORMS K-2 AND K-4 OIL SWITCHES (Concluded)

HAND OPERATED TRIPLE-POLE, SINGLE-THROW SWITCHES, EACH CONSISTING OF THREE SINGLE-POLE ELEMENTS AND ONE OPERATING MECHANISM

WITHOUT OVERLOAD RELEASE, NON-AUTOMATIC, FORM K-2

Amp. Cap.	Voltage	Ship. Wt. Lb.	FOR REMOTE CONTROL							
			Operating Mechanism for Mounting on 1½ in. or 2 in. Panel							
			Switches on Pipe Framework for Mounting in Asbestos Lumber Cells Arrangement Fig. 4		Switches on Pipe Framework for Mounting in Asbestos Lumber Cells Arrangement Fig. 5		Switches on Flat Surface for Mounting in Brick Cells Arrangement Fig. 6		Switches on Flat Surface for Mounting in Brick Cells Arrangement Fig. 7	
			Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
300	15000	400	63357	Prices on Application	63363	Prices on Application	64578	Prices on Application	64584	Prices on Application
500	15000	420	63358		63364		64579		64585	

FORM K-4

300	15000	550	63859	Prices on Application	63865	Prices on Application	64646	Prices on Application	64652	Prices on Application
500	15000	570	63860		63866		64647		64653	

WITH OVERLOAD RELEASE, AUTOMATIC, WITH ONE TRIP COIL AND CURRENT TRANSFORMERS, FORM K-2

300	7500	400	65822	Prices on Application	65826	Prices on Application	65840	Prices on Application	65844	Prices on Application
500	7500	420	65823		65827		65841		65845	
300	15000	430	63359		63365		64580		64586	
500	15000	450	63360		63366		64581		64587	

FORM K-4

300	7500	640	65992	Prices on Application	65996	Prices on Application	66010	Prices on Application	66014	Prices on Application
500	7500	660	65993		65997		66011		66015	
300	15000	660	63861		63867		64648		64654	
500	15000	680	63862		63868		64649		64655	

WITH OVERLOAD RELEASE, AUTOMATIC, WITH THREE TRIP COILS AND CURRENT TRANSFORMERS, FORM K-2

300	7500	590	65824	Prices on Application	65828	Prices on Application	65842	Prices on Application	65846	Prices on Application
500	7500	630	65825		65829		65843		65847	
300	15000	430	63361		63367		64582		64588	
500	15000	460	63362		63368		64583		64589	

FORM K-4

300	7500	660	65994	Prices on Application	65998	Prices on Application	66012	Prices on Application	66016	Prices on Application
500	7500	680	65995		65999		66013		66017	
300	15000	730	63863		63869		64650		64656	
500	15000	740	63864		63870		64651		64657	

For kilowatt capacity of system with which switches may be used, see page 309.

TYPE F FORM K-3 OIL SWITCHES

HAND OPERATED WITHOUT OVERLOAD RELEASE—NON-AUTOMATIC

DOUBLE-POLE, SINGLE THROW

Amp. Cap.	Voltage	FOR PANEL MOUNTING				FOR REMOTE CONTROL			
		Ship. Wt. Lb.	Switch and Operating Mechanism for Mounting on 1½ In. or 2 In. Panel		Ship. Wt. Lb.	Operating Mechanism for Mounting on 1½ In. or 2 In. Panel Switch on Pipe Framework Fig. 1		Cat. No.	List Price
			Cat. No.	List Price					
100	4500	100	63605	Prices on Application	200	63395	Prices on Application		
200	4500	100	63621		200	63546			
300	4500	150	63637		250	63552			
500	4500	170	63683		260	63553			
TRIPLE-POLE, SINGLE THROW									
100	4500	100	63606	Prices on Application	200	63396	Prices on Application		
200	4500	100	63622		200	63547			
300	4500	170	63638		270	63553			
500	4500	180	63684		280	63559			

OIL SWITCHES

TYPE F FORM K-3 OIL SWITCHES (Continued)

HAND OPERATED WITHOUT OVERLOAD RELEASE—NON-AUTOMATIC (Concluded)

FOUR-POLE, SINGLE THROW

Amp. Cap.	Voltage	FOR PANEL MOUNTING			FOR REMOTE CONTROL		
		Ship. Wt. Lb.	Switch and Operating Mechanism for Mounting on 1½ In. or 2 In. Panel		Ship. Wt. Lb.	Operating Mechanism for Mounting on 1½ In. or 2 In. Panel Switch on Pipe Framework Fig. 1	
			Cat. No.	List Price		Cat. No.	List Price
100	4500	130	63607	Prices on Application	220	63397	Prices on Application
200	4500	130	63623		220	63548	
300	4500	200	63639		300	63554	
500	4500	220	63685		320	63560	

DOUBLE-POLE, DOUBLE THROW

100	4500	150	63608	Prices on Application	330	63398	Prices on Application
200	4500	150	63624		330	63549	
300	4500	250	63640		440	63555	
500	4500	270	63705		460	63561	

TRIPLE-POLE, DOUBLE THROW

100	4500	150	63609	Prices on Application	340	63399	Prices on Application
200	4500	150	63625		340	63550	
300	4500	280	63641		470	63556	
500	4500	300	63706		490	63562	

FOUR-POLE, DOUBLE THROW

100	4500	200	63610	Prices on Application	380	63527	Prices on Application
200	4500	200	63626		380	63551	
300	4500	350	63642		530	63557	
500	4500	370	63707		550	63563	

To insure safety in operation, controlling apparatus subject to potentials in excess of 2500 volts should not be mounted directly on the switchboard.

For kilowatt capacity of system with which switches may be used, see page 309.

HAND OPERATED WITH OVERLOAD RELEASE—AUTOMATIC
WITH TRIP COILS FOR CONNECTING IN SERIES WITH MAIN CIRCUIT

DOUBLE-POLE, SINGLE THROW, ONE SERIES TRIP COIL

DOUBLE-POLE, DOUBLE THROW, ONE SERIES TRIP COIL

Amp. Cap.	Voltage	FOR PANEL MOUNTING			Amp. Cap.	Voltage	FOR PANEL MOUNTING		
		Ship. Wt. Lb.	Switch and Mechanism for Mounting on 1½ In. or 2 In. Panel				Ship. Wt. Lb.	Switch and Mechanism for Mounting on 1½ In. or 2 In. Panel	
			Cat. No.	List Price				Cat. No.	List Price
100	2500	130	63778	Prices on Application	100	2500	180	63781	Prices on Application
200	2500	130	63788		200	2500	180	63791	
300	2500	170	63798		300	2500	280	63801	

TRIPLE-POLE, SINGLE THROW, TWO SERIES TRIP COILS

TRIPLE-POLE, DOUBLE THROW, TWO SERIES TRIP COILS

100	2500	130	63784	Prices on Application	100	2500	180	63786	Prices on Application
200	2500	130	63794		200	2500	180	63796	
300	2500	200	63804		300	2500	300	63806	

FOUR-POLE, SINGLE THROW, TWO SERIES TRIP COILS

FOUR-POLE, DOUBLE THROW, TWO SERIES TRIP COILS

100	2500	150	63785	Prices on Application	100	2500	230	63787	Prices on Application
200	2500	150	63795		200	2500	230	63797	
300	2500	230	63805		300	2500	350	63807	

For kilowatt capacity of system with which switch may be used see page 309.

OIL SWITCHES

TYPE F FORM K-3 OIL SWITCHES (Continued)

HAND OPERATED WITH OVERLOAD RELEASE—AUTOMATIC
WITH ONE TRIP COIL AND CURRENT TRANSFORMERS

DOUBLE-POLE, SINGLE-THROW

Amp. Cap.	Volt- age	FOR PANEL MOUNTING			FOR REMOTE CONTROL		
		Ship. Wt. Lb.	Switch and Operating Mechanism for Mounting on 1½ in. or 2 in. Panel		Ship. Wt. Lb.	Operating Mechanism for Mounting on 1½ in. or 2 in. Panel. Switch on Pipe Framework. Fig. 1	
			Cat. No.	List Price		Cat. No.	List Price
100	4500	150	63611	Prices on Application	250	63564	Prices on Application
200	4500	150	63627		250	63571	
300	4500	200	63643		300	63577	
500	4500	220	63708		310	63583	

TRIPLE-POLE, SINGLE THROW

100	4500	200	63612	Prices on Application	290	63565	Prices on Application
200	4500	200	63628		290	63572	
300	4500	250	63644		360	63578	
500	4500	270	63710		380	63584	

FOUR-POLE, SINGLE THROW

100	4500	230	63613	Prices on Application	320	63567	Prices on Application
200	4500	230	63629		320	63573	
300	4500	290	63645		390	63579	
500	4500	310	63746		410	63585	

DOUBLE-POLE, DOUBLE THROW

100	4500	200	63614	Prices on Application	390	63568	Prices on Application
200	4500	200	63630		390	63574	
300	4500	310	63646		500	63580	
500	4500	330	63747		520	63586	

TRIPLE-POLE, DOUBLE THROW

100	4500	250	63615	Prices on Application	440	63569	Prices on Application
200	4500	250	63631		440	63575	
300	4500	370	63647		560	63581	
500	4500	390	63748		580	63587	

FOUR-POLE, DOUBLE THROW

100	4500	300	63616	Prices on Application	480	63570	Prices on Application
200	4500	300	63632		480	63576	
300	4500	430	63648		630	63582	
500	4500	460	63773		650	63588	

HAND OPERATED, WITH OVERLOAD RELEASE—AUTOMATIC
WITH THREE TRIP COILS AND CURRENT TRANSFORMERS

TRIPLE-POLE, SINGLE THROW

Amp. Cap.	Volt- age	FOR PANEL MOUNTING			FOR REMOTE CONTROL		
		Ship. Wt. Lb.	Switch and Operating Mechanism for Mounting on 1½ in. or 2 in. Panel		Ship. Wt. Lb.	Operating Mechanism for Mounting on 1½ in. or 2 in. Panel. Switch on Pipe Framework. Fig. 1	
			Cat. No.	List Price		Cat. No.	List Price
100	4500	100	63617	Prices on Application	200	63589	Prices on Application
200	4500	100	63633		220	63593	
300	4500	110	63649		230	63597	
500	4500	130	63774		250	63601	

To insure safety in operation, controlling apparatus subject to potentials in excess of 2500 volts should not be mounted directly on the switchboard.

For kilowatt capacity of system with which switches may be used, see page 309.

OIL SWITCHES

TYPE F FORM K-3 OIL SWITCHES (Concluded)

HAND OPERATED, WITH OVERLOAD RELEASE—AUTOMATIC
WITH THREE TRIP COILS AND CURRENT TRANSFORMERS (Concluded)

FOUR-POLE, SINGLE THROW

Amp. Cap.	Voltage	FOR PANEL MOUNTING			FOR REMOTE CONTROL		
		Ship. Wt. Lb.	Switch and Operating Mechanism for Mounting on 1½ in. or 2 in. Panel		Ship. Wt. Lb.	Operating Mechanism for Mounting on 1½ in. or 2 in. Panel. Switch on Pipe Framework. Fig. 1	
			Cat. No.	List Price		Cat. No.	List Price
100	4500	120	63618	Prices on Application	220	63590	Prices on Application
200	4500	120	63634		220	63594	
300	4500	130	63655		230	63598	
500	4500	150	63775		250	63602	

TRIPLE-POLE, DOUBLE THROW

100	4500	150	63619	Prices on Application	260	63591	Prices on Application
200	4500	150	63635		260	63595	
300	4500	160	63677		270	63599	
500	4500	180	63776		290	63603	

FOUR-POLE, DOUBLE THROW

100	4500	190	63620	Prices on Application	310	63592	Prices on Application
200	4500	190	63636		310	63596	
300	4500	200	63679		320	63600	
500	4500	220	63777		340	63604	

To insure safety in operation, controlling apparatus subject to potentials in excess of 2500 volts should not be mounted directly on the switchboard.

For kilowatt capacity of system with which switches may be used see page 309.

Low voltage release attachments can be furnished for use with the overload release (automatic) K-3 oil switches.

TYPE F FORM K-7 OIL SWITCHES

HAND OPERATED

Particularly designed to meet the requirements of induction motor installations and for use wherever a compact, reliable and inexpensive switch is desired.

Particularly adapted to service in mills, factories, etc.

Arranged for mounting on wall, pillar or other convenient support.

WITHOUT OVERLOAD RELEASE—NON-AUTOMATIC

DOUBLE-POLE, SINGLE-THROW

TRIPLE-POLE, SINGLE-THROW

Amp. Cap.	Voltage	Ship. Wt. Lb.	Cat. No.	List Price	Amp. Cap.	Voltage	Ship. Wt. Lb.	Cat. No.	List Price
50	600	75	42399	\$24.00	50	600	75	42400	\$26.00
100	600	75	42401	27.00	100	600	75	42402	32.00
200	600	75	42403	28.00	200	600	75	42404	33.00
300	600	90	42918	38.00	300	600	90	42919	43.00
50	2500	75	42499	28.00	50	2500	75	42500	30.00

WITH OVERLOAD RELEASE—AUTOMATIC—ONE SERIES OVERLOAD TRIP COIL

DOUBLE-POLE, SINGLE THROW

TRIPLE-POLE, SINGLE THROW

50	600	85	42405	\$34.00	50	600	85	42406	\$36.00
100	600	85	42407	37.00	100	600	85	42408	42.00
200	600	85	42409	38.00	200	600	85	42410	43.00
300	600	100	42920	48.00	300	600	100	42921	53.00
50	2500	85	42501	38.00	50	2500	85	42502	40.00

For kilowatt capacity of system with which switch may be used see page 309.

OIL SWITCHES

VARIOUS ARRANGEMENTS OF TYPE F OIL SWITCHES

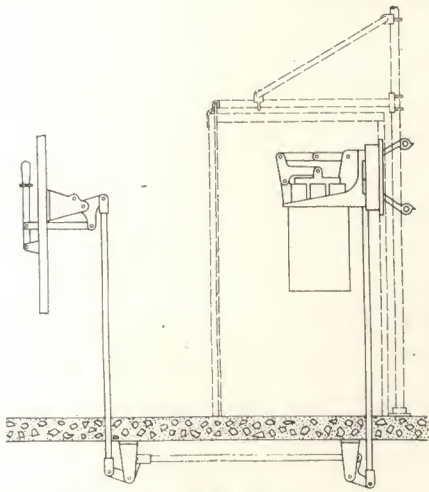


Fig. 2
Form K-2 or K-4 Switch Mounted
in Asbestos Lumber Cell

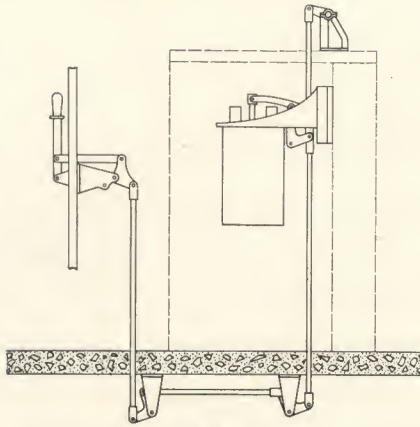


Fig. 6
Same as Fig. 4, but Mounted in Brick Cell,
back, above or below Panel

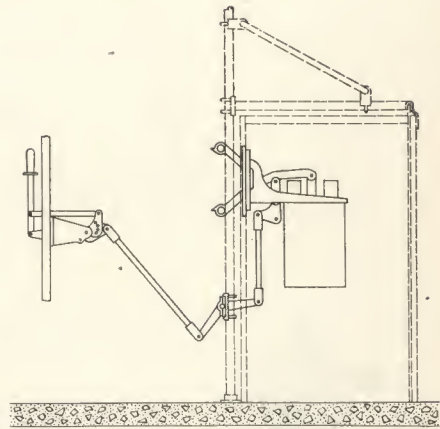


Fig. 5
Same as Fig. 4, but Mounted directly back
of Panel

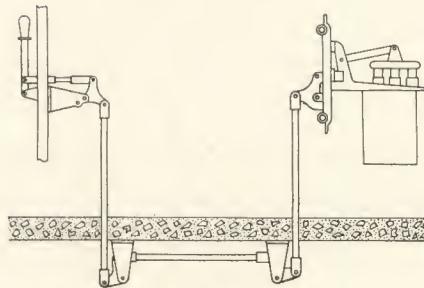


Fig. 1
Form K-2, K-3 or K-4 Switch Mounted
on Pipe Framework

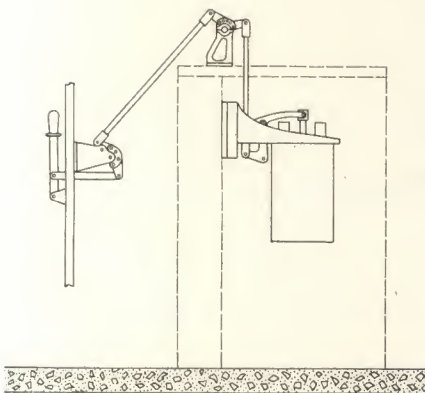


Fig. 7
Same as Fig. 6, but mounted directly
back of Panel

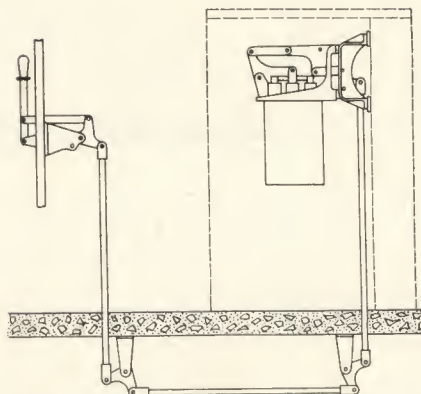


Fig. 3
Form K-2 or K-4 Switch Mounted in Brick Cell

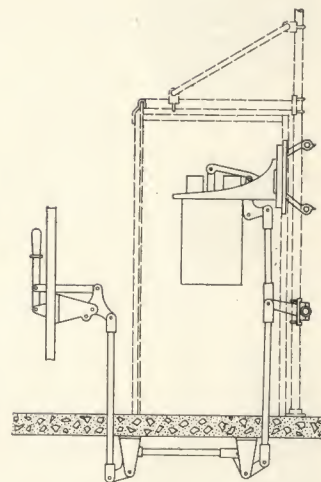


Fig. 4
Form K-2 or K-4, T.P.S.T. Switch
Consisting of 3 single-pole elements
and one operating mechanism,
Mounted in Asbestos Lumber Cell,
back, above or below Panel

OIL SWITCHES

TYPE F FORM K-7 OIL SWITCHES (Concluded)

* LOW VOLTAGE RELEASE ATTACHMENT

Voltage	Cycles	Cat. No.	List Price	Voltage	Cycles	Cat. No.	List Price
110	25-40-60	76220	\$9.00	550	25-40-60	76223	\$12.00
220	25-40-60	76221	10.00	† 2080	25-40-60	76224	63.00
440	25-40-60	76222	11.00				

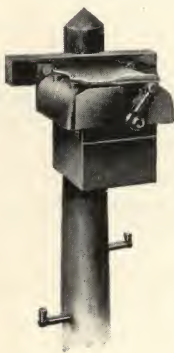
* Release at approximately one-half rated voltage.

† Includes potential transformers Cat. No. 34155.

Can be used with overload release (automatic) switches only.

Prices and information on sheet metal covers for Type F Form K-7 Oil Switches upon request.

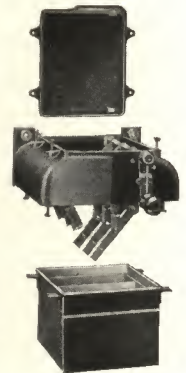
TYPE F FORM P OIL SWITCHES

HAND OPERATED, WITHOUT OVERLOAD RELEASE—NON-AUTOMATIC
FOR POLE LINE AND OUT-DOOR SERVICE IN GENERAL

Amp. Cap.	Voltage	Poles and Throw	Ship. Wt. Lb.	Cat. No.	List Price	Amp. Cap.	Voltage	Poles and Throw	Ship. Wt. Lb.	Cat. No.	List Price
100	4500	D.P.S.T.	125	44950	\$30.00	200	7500	4-P.S.T.	275	59187	
100	4500	T.P.S.T.	175	44951	40.00	200	15,000	S.P.S.T.	250	59188	
100	4500	4-P.S.T.	225	44952	50.00	200	15,000	D.P.S.T.	300	59189	
200	7500	S.P.S.T.	175	59184	Prices on Application	200	15,000	T.P.S.T.	350	59190	
200	7500	D.P.S.T.	200	59185		200	15,000	4-P.S.T.	400	59191	
200	7500	T.P.S.T.	250	59186							

On alternating current railway systems, the sectionalizing switches frequently are required to remain in the open position except when held closed. The 7500 volt and 15,000 volt switches can be arranged to release automatically as soon as the hand is removed, for an additional price.

For kilowatt capacity of system with which switch may be used see page 309.



TYPE F FORM P-3 OIL SWITCH

HAND OPERATED, WITHOUT OVERLOAD RELEASE—NON-AUTOMATIC

Entirely enclosed, absolutely dust- and fire-proof. For cotton mills, flour-mills, saw-mills and similar service. The P-3 oil switch is designed to be operated by the lateral movement of a shipping rod attached to the crank on the operating shaft. The crank is mounted on the right- or left-hand side of the switch and a handle can be substituted for the shipping rod if desired. Switches may be mounted directly on the machines controlled.

Overload and short circuit protection should be obtained by the use of fuses.

Gravity-closed, dust- and fire-proof fuse or cut-out boxes, for use with these switches are listed below. These boxes take N.E.C. standard 600 volt enclosed fuses.

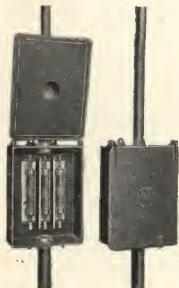


Amp. Cap.	Voltage	Description	Ship. Wt. Lb.	Cat No.	List Price
80	600	T.P.S.T. } Right	35	64063	Prices on Application
80	600	4-P.S.T. } Hand	40	64064	
80	600	T.P.S.T. } Left	35	66152	
80	600	4-P.S.T. } Hand	40	66154	

For kilowatt capacity of system with which switches may be used, see page 309.

DUST-PROOF CUT-OUTS (WITHOUT FUSES)

These cut-outs are drilled for specified size of conduit. 30 and 60 ampere sizes are furnished with terminals for extra large cable.



Amp. Cap.	Voltage	Poles	CONDUIT DRILLING		Cat. No.	Std. Pkg.	List Price
			Top (Service)	Bottom (Feeder)			
0-30	600	T.P.	1 1/8"	1 3/8"	48422	25	\$4.50
0-30	600	4-P.	1 1/8"	2"	58441	25	6.50
31-60	600	T.P.	1 1/8"	2"	48423	25	6.00
61-80	600	T.P.	—	—	*48720	25	10.00

* Specify size of conduit drilling required.

OIL SWITCHES

TYPE F FORM P-5 OIL SWITCH

HAND OPERATED, WITHOUT OVERLOAD RELEASE—NON-AUTOMATIC

Entirely enclosed, absolutely dust- and fire-proof. For machine shops, mills and similar service.

The P-5 oil switches are designed to be operated by the movement of a shipping lever, rope or other convenient method, and may be mounted directly on the machine.

Overload and short circuit protection should be obtained by the use of fuses.

Amp. Cap.	Voltage	Poles and Throw	Ship. Wt. Lb.	Cat. No.	List Price	Amp. Cap.	Voltage	Poles and Throw	Ship. Wt. Lb.	Cat. No.	List Price
50	600	T.P.S.T.	30	76876	Prices on Application	50	600	T.P.D.T.	35	76878	Prices on Application
50	600	4-P.S.T.	40	76877		50	600	4-P.D.T.	45	76879	

For kilowatt capacity of system with which switches may be used, see page 309.

RELAYS

The devices here listed comprise the most generally used types of relays manufactured by the General Electric Company. They are the result of years of experience in the design and manufacture of such devices and are built of the best materials by skilled workmen; are reliable, compact, easy to install, inspect and keep clean. All relays should be regularly inspected and carefully cleaned and they should be occasionally tested in order to insure the most satisfactory operation.

Relays in general may be described as auxiliary electro-magnetic devices, employed in connection with the protective apparatus of a circuit to trip or open electrically a circuit breaker or oil switch, under certain predetermined abnormal conditions.

Reverse current relays have one point of calibration. Instantaneous overload relays have a minimum calibration of 4 amperes (secondary current) and a maximum of 9 amperes, with intermediate calibration points; time limit overload relays are calibrated from 6 to 15 amperes. Within certain limits other calibrations can be furnished, the continuous carrying capacity of the relay then being subject to change.

Terminal boards are furnished with most of the relays described. These are numbered and lettered to correspond to the terminals of the relay coils, and greatly facilitate proper installation.

It is not intended that the circuit closing (normally open) type of relay should open the tripping circuit and it is necessary that an auxiliary switch be provided on the oil switch or circuit breaker, for this purpose.

D.C. REVERSE CURRENT RELAYS FOR CIRCUIT BREAKERS

INSTANTANEOUS, SINGLE POLE, CIRCUIT CLOSING (NORMALLY OPEN)

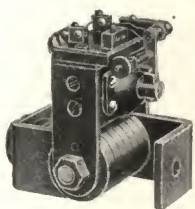
TYPE R FORM B-3

Volts	Amp. Cap.	Size of Circuit Breaker Stud in Ins.	Cat. No.	List Price	Volts	Amp. Cap.	Size of Circuit Breaker Stud in Ins.	Cat. No.	List Price
125	15	1/2"	43441	\$63.00	250	200	1/2"	43452	\$69.00
125	25		43442	63.00	250	300		43453	69.00
125	50		43443	65.00	250	500		43454	70.00
125	100		43444	65.00	650	15		43455	73.00
125	200		43445	65.00	650	25		43456	73.00
125	300		43446	65.00	650	50		43457	75.00
125	500		43447	66.00	650	100		43458	75.00
250	15		43448	67.00	650	200		43459	75.00
250	25		43449	67.00	650	300		43460	75.00
250	50		43450	69.00	650	500		43461	76.00
250	100		43451	69.00					

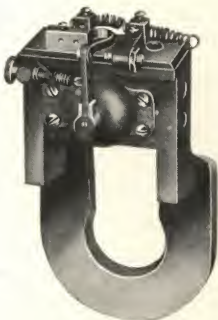
TYPE R FORM B-2

125	800	1	43462	\$80.00	250	4000	2 1/2"	43470	\$88.00
125	1200	1 1/4"	43463	80.00	250	6000	3 1/4"	43471	89.00
125	2000	1 3/4"	43464	83.00	650	800	1"	43472	90.00
125	4000	2 1/4"	43465	84.00	650	1200	1 1/4"	43473	90.00
125	6000	3 1/4"	43466	85.00	650	2000	1 1/2"	43474	93.00
250	800	1	43467	84.00	650	4000	2 1/2"	43475	94.00
250	1200	1 1/4"	43468	84.00	650	6000	3 1/4"	43476	95.00
250	2000	1 3/4"	43469	87.00					

For mounting on circuit breaker studs.
No drilling for relay necessary.



Type R Form B-3 Relay

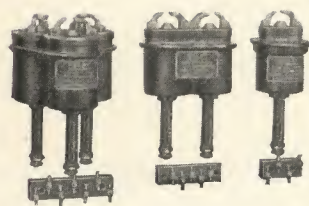


Type R Form B-2 Relay

RELAYS

A.C. OVERLOAD

* FOR USE WITH CURRENT TRANSFORMERS HAVING
5 AMPERE SECONDARIES



Type P Form B, A.C. Relays
Instantaneous Overload
Circuit Closing

INSTANTANEOUS

Type	Form	Description	Poles	Cat. No.	List Price
P	B	Circuit closing—normally open.....	S.P.	43417	\$21.00
P	B	Circuit closing—normally open.....	D.P.	43418	32.00
P	B	Circuit closing—normally open.....	T.P.	43419	48.00
P	B2	Circuit opening—normally closed.....	S.P.	43420	21.00
P	B2	Circuit opening—normally closed.....	D.P.	43421	32.00
P	B2	Circuit opening—normally closed.....	T.P.	43422	48.00

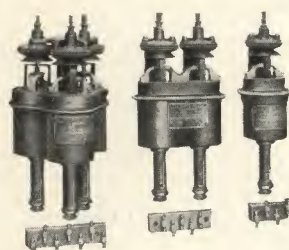
INVERSE TIME LIMIT

P	C	Circuit closing—normally open.....	S.P.	43423	\$27.00
P	C	Circuit closing—normally open.....	D.P.	43424	48.00
P	C	Circuit closing—normally open.....	T.P.	43425	73.00
P	C2	Circuit opening—normally closed.....	S.P.	43426	27.00
P	C2	Circuit opening—normally closed.....	D.P.	43427	48.00
P	C2	Circuit opening—normally closed.....	T.P.	43428	73.00

DEFINITE TIME LIMIT

P	C5	Circuit closing—normally open.....	S.P.	43429	\$27.00
P	C5	Circuit closing—normally open.....	D.P.	43430	48.00
P	C5	Circuit closing—normally open.....	T.P.	43431	73.00
P	C6	Circuit opening—normally closed.....	S.P.	43432	27.00
P	C6	Circuit opening—normally closed.....	D.P.	43433	48.00
P	C6	Circuit opening—normally closed.....	T.P.	43434	73.00

For mounting on front or back of panel.



Type P Form C-2, A.C. Relays
Inverse Time Limit Overload
Circuit Opening

A.C. REVERSE CURRENT

* FOR USE WITH CURRENT TRANSFORMERS HAVING 5 AMPERE SECONDARIES AND
POTENTIAL TRANSFORMERS HAVING 110 VOLT SECONDARIES

INSTANTANEOUS

INVERSE TIME LIMIT



Type P Form C-8,
A.C. Relay
Inverse Time Limit
Reverse Current,
Normally open

Type	Form	Description	Poles	Cat. No.	List Price	Type	Form	Description	Poles	Cat. No.	List Price
P	B8	Circuit closing—normally open	S.P.	43435	\$29.00	P	C8	Circuit closing—normally open	S.P.	43438	\$37.00
P	B8	Circuit closing—normally open	D.P.	43436	50.00	P	C8	Circuit closing—normally open	D.P.	43439	64.00
P	B8	Circuit closing—normally open	T.P.	43437	71.00	P	C8	Circuit closing—normally open	T.P.	43440	92.00

* No transformers included.
For mounting on front or back of panel.

WROUGHT COPPER CABLE TERMINALS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

The General Electric Company is prepared to furnish Wrought Copper Cable Terminals, as shown in the accompanying illustrations. They are neat in appearance, have sufficient current carrying capacity, good contact area, and are much smaller than the cast terminal on account of the high conductivity of the metal.

These terminals are divided into four classes. The first two classes are designed for mounting on the current carrying studs, while the third and fourth classes are designed for bolting to flat surfaces, where the contact bolt does not necessarily carry the current.

To facilitate the ordering of these terminals, the following catalogue numbers have been assigned.

WROUGHT COPPER CABLE TERMINALS

CLASS 1

TERMINALS WITH ROUNDED END FOR MOUNTING ON CURRENT CARRYING STUDS, WITH ONE STUD HOLE

Std. Pkg.	Cat. No.	Amp. Cap. Rubber Insulated Conductors N. E. C. Standard	MAX. SIZE B.&S. GAUGE		Dia. Stud Hole in Ins.	Width of Flat Portion in Ins.	Total Length in Ins.	Fig.	List Price Per 100
			Wire	Cable					
100	41074	17	12	12	$\frac{1}{2}$	.263	$1\frac{1}{8}$	3	\$4.00
100	32534	33	8	10	$\frac{1}{2}$	.263	$1\frac{1}{8}$	3	4.00
100	41075	33	8	10	$\frac{1}{2}$	.263	$1\frac{1}{8}$	3	4.25
100	41082	33	8	10	$\frac{1}{2}$	.263	$1\frac{1}{8}$	3	4.25
100	41076	33	8	10	$\frac{1}{2}$	.263	$1\frac{1}{8}$	3	4.50
100	41078	33	8	10	$\frac{1}{2}$	.263	$1\frac{1}{8}$	3	6.25
100	32535	50	5	6	$\frac{1}{2}$	.356	$1\frac{1}{8}$	3	4.50
100	41081	50	5	6	$\frac{1}{2}$	.356	$1\frac{1}{8}$	3	4.50
100	41080	50	5	6	$\frac{1}{2}$	.356	$1\frac{1}{8}$	3	6.00
100	51878	75	3	4	$\frac{1}{2}$	.464	$1\frac{1}{8}$	9	6.00
100	32536	75	3	4	$\frac{1}{2}$	.464	$1\frac{1}{8}$	3	6.00
100	41077	90	2	3	$\frac{1}{2}$	.464	$1\frac{1}{8}$	3	6.50
100	41079	90	2	3	$\frac{1}{2}$	.464	$1\frac{1}{8}$	3	7.25
100	32537	125	0	1	$\frac{1}{2}$	.639	$1\frac{1}{8}$	3	7.50
100	32538	175	000	0	$\frac{1}{2}$	.744	$2\frac{1}{8}$	3	8.50
100	41070	175	000	00	$\frac{1}{2}$	.818	$2\frac{1}{8}$	3	12.00
50	32539	210	0000	0000	$\frac{1}{2}$	1.026	$2\frac{1}{8}$	3	16.00
50	32540	225		250,000C.M.	$\frac{1}{2}$	1.107	$2\frac{1}{8}$	3	22.50
50	32541	250		300,000C.M.	$\frac{1}{2}$	1.199	$3\frac{1}{8}$	3	25.00
25	32542	325		400,000C.M.	$\frac{1}{2}$	1.379	$3\frac{1}{8}$	3	35.00
25	32543	375		500,000C.M.	$\frac{1}{2}$	1.573	$4\frac{1}{8}$	3	48.50
25	32544	450		600,000C.M.	$\frac{1}{2}$	1.670	$4\frac{1}{8}$	3	55.00
25	32545	550		800,000C.M.	$\frac{1}{2}$	1.960	$5\frac{1}{8}$	3	66.50
25	32546	650		1,000,000C.M.	$\frac{1}{2}$	2.190	$5\frac{1}{8}$	3	82.50
10	32547	850		1,500,000C.M.	$1\frac{1}{2}$	2.660	$6\frac{1}{8}$	3	135.00
10	32548	1050		2,000,000C.M.	$1\frac{1}{2}$	3.053	$7\frac{1}{8}$	3	230.00
50	51879	210	0000	0000	$\frac{1}{2}$	1.026	2	8	20.00
25	51880	325		400,000C.M.	$\frac{1}{2}$	1.379	$2\frac{1}{2}$	8	41.00

CLASS 2

WITH TWO STUD HOLES

100	36020	33	8	10	$\frac{1}{2}$	.263	$1\frac{1}{8}$	1	\$5.00
100	36023	50	5	6	$\frac{1}{2}$	.356	$1\frac{1}{8}$	1	7.00
100	36025	75	3	4	$\frac{1}{2}$	.464	$1\frac{1}{8}$	1	8.00
100	36027	125	0	1	$\frac{1}{2}$	.639	$2\frac{1}{8}$	1	9.25
100	36029	175	000	0	$\frac{1}{2}$	.744	$2\frac{1}{8}$	1	10.00
100	36033	175	000	00	$\frac{1}{2}$	.818	$3\frac{1}{8}$	1	16.00
50	36035	210	0000	0000	$\frac{1}{2}$	1.026	$3\frac{1}{8}$	1	20.00
50	36037	225		250,000C.M.	$\frac{1}{2}$	1.107	$3\frac{1}{8}$	1	26.50
50	36040	250		300,000C.M.	$\frac{1}{2}$	1.199	$4\frac{1}{8}$	1	28.50
25	36042	325		400,000C.M.	$\frac{1}{2}$	1.379	$4\frac{1}{8}$	1	45.00
25	36045	375		500,000C.M.	$\frac{1}{2}$	1.573	$5\frac{1}{8}$	1	65.00
25	36048	450		600,000C.M.	$\frac{1}{2}$	1.670	$5\frac{1}{8}$	1	66.50
25	36051	550		800,000C.M.	$\frac{1}{2}$	1.96	$6\frac{1}{8}$	1	81.00
25	36054	650		1,000,000C.M.	$\frac{1}{2}$	2.19	$7\frac{1}{8}$	1	112.00
10	36057	850		1,500,000C.M.	$1\frac{1}{2}$	2.66	$8\frac{1}{8}$	1	175.00
10	36060	1050		2,000,000C.M.	$1\frac{1}{2}$	3.033	$9\frac{1}{8}$	1	285.00

CLASS 3

TERMINALS WITH SQUARED END FOR BOLTING TO FLAT SURFACES, WITH ONE STUD HOLE

100	36019	33	8	10	$\frac{1}{2}$	.263	$1\frac{1}{8}$	4	\$4.00
100	41071	33	8	10	$\frac{1}{2}$	.1695	$1\frac{1}{8}$	4	4.00
100	36022	50	5	6	$\frac{1}{2}$	.356	$1\frac{1}{8}$	4	5.00
100	41072	50	5	6	$\frac{1}{2}$	.196	$1\frac{1}{8}$	4	5.00
100	32549	75	3	4	$\frac{1}{2}$	.464	$1\frac{1}{8}$	4	6.00
100	41073	90	2	3	$\frac{1}{2}$	.464	$1\frac{1}{8}$	4	7.00
100	32550	125	0	1	$\frac{1}{2}$	.639	$1\frac{1}{8}$	4	8.00
100	32551	175	000	0	$\frac{1}{2}$	.744	$2\frac{1}{8}$	4	15.00
100	36032	175	000	00	$\frac{1}{2}$	.818	$2\frac{1}{8}$	4	12.00
50	51883	210	0000	0000	$\frac{1}{2}$	1.026	$2\frac{1}{8}$	4	15.00
100	51884	225		250,000C.M.	$\frac{1}{2}$	1.107	$2\frac{1}{8}$	4	35.00
50	36039	250		300,000C.M.	$\frac{1}{2}$	1.199	$3\frac{1}{8}$	4	25.00
25	51885	325		400,000C.M.	$\frac{1}{2}$	1.379	$3\frac{1}{8}$	4	34.50
25	36044	375		500,000C.M.	$\frac{1}{2}$	1.573	$4\frac{1}{8}$	4	48.50
25	36047	450		600,000C.M.	$\frac{1}{2}$	1.67	$4\frac{1}{8}$	4	54.50
20	36050	550		800,000C.M.	$\frac{1}{2}$	1.96	$5\frac{1}{8}$	4	120.00
25	36053	650		1,000,000C.M.	$\frac{1}{2}$	2.19	$5\frac{1}{8}$	4	82.50
10	36056	850		1,500,000C.M.	$1\frac{1}{2}$	2.66	$6\frac{1}{8}$	4	137.00
10	36059	1050		2,000,000C.M.	$1\frac{1}{2}$	3.03	$7\frac{1}{8}$	4	230.00
100	51881	75	3	4	$\frac{1}{2}$	.136	$2\frac{1}{8}$	*7	7.50
100	51882	125	0	1	$\frac{1}{2}$	.639	$1\frac{1}{8}$	6	8.30
25	32553	325		400,000C.M.	$\frac{1}{2}$	1	3	5	35.00

* Has two stud holes, and is evenly offset on both sides.

WROUGHT COPPER CABLE TERMINALS

CLASS 4

WITH TWO STUD HOLES

Std. Pkg.	Cat. No.	Amp. Cap. Rubber Insulated Conductors N. E. C. Standard	MAX. SIZE B.&S. GAUGE		Dia. Stud Hole in Ins.	Width of Flat Portion in Ins.	Total Length in Ins.	Fig.	List Price Per 100
			Wire	Cable					
100	36021	33	8	10	$\frac{5}{32}$	.263	$1\frac{1}{8}$	2	\$5.00
100	36024	50	5	6	$\frac{1}{16}$	.356	$1\frac{1}{8}$	2	7.00
100	36026	75	3	4	$\frac{3}{32}$	.464	$1\frac{1}{8}$	2	8.00
100	36028	125	0	1	$\frac{9}{32}$	.639	$2\frac{1}{8}$	2	9.50
100	36030	175	000	0	$\frac{11}{32}$	.744	$2\frac{1}{8}$	2	10.00
100	36034	175	000	00	$\frac{13}{32}$	.818	$3\frac{1}{8}$	2	15.50
50	36036	210	0000	0000	$\frac{15}{32}$	1.026	$3\frac{1}{8}$	2	20.00
50	36038	225		250,000C.M.	$\frac{17}{32}$	1.107	$3\frac{1}{8}$	2	26.50
50	36041	250		300,000C.M.	$\frac{17}{32}$	1.199	$4\frac{1}{8}$	2	28.50
25	36043	325		400,000C.M.	$\frac{17}{32}$	1.379	$4\frac{1}{8}$	2	45.00
25	36046	375		500,000C.M.	$\frac{17}{32}$	1.573	$5\frac{1}{8}$	2	65.00
25	36049	450		600,000C.M.	$\frac{17}{32}$	1.67	$5\frac{1}{8}$	2	66.50
25	36052	550		800,000C.M.	$\frac{17}{32}$	1.96	$6\frac{1}{8}$	2	81.00
25	36055	650		1,000,000C.M.	$\frac{17}{32}$	2.19	$7\frac{1}{8}$	2	110.00
10	36058	850		1,500,000C.M.	$1\frac{1}{32}$	2.66	$8\frac{1}{8}$	2	176.00
10	36061	1050		2,000,000C.M.	$1\frac{1}{32}$	3.03	$9\frac{1}{8}$	2	285.00
50	32554	450		600,000C.M.	$\frac{11}{32}$	$1\frac{1}{8}$	4	5	80.00
10	32555	850		1,500,000C.M.	$\frac{17}{32}$	2	6	5	135.00

BRASS WIRE CLEATS

Cat. No.	Description	Std. Pkg.	List Price Per 1000	Cat. No.	Description	Std. Pkg.	List Price Per 1000
15118	For $\frac{3}{16}$ " dia. wire	250	\$6.50	15102	Corner cleat, for $\frac{3}{16}$ " dia. wire	250	\$7.50
15100	For $\frac{1}{8}$ " dia. wire	250	8.00	15104	Corner cleat, for $\frac{1}{8}$ " dia. wire	250	8.00
15103	For $\frac{3}{32}$ " dia. wire	250	10.00	15116	Corner cleat, for $\frac{1}{16}$ " dia. wire	250	12.50
15108	For $\frac{1}{16}$ " dia. wire	250	15.00				

WIRES AND CABLES

SUGGESTIONS FOR ORDERING AND CHOICE OF CABLES

ORDERING

In ordering, or making inquiries regarding wires or cables, time and correspondence will be saved if information as to the following specifications is given.

First. Working pressure of the circuit in which the cable is to be used. (Specify the class of service—arc, alternating, railway or low tension direct.) If alternating current, specify whether delta or star connected circuit.

Second. Test pressure required, if any.

Third. Insulation resistance per mile required, if any.

Fourth. Size of conductor, or the amount of current in amperes to be carried.

Fifth. If the cable is for submarine use, give data as to the nature of the bottom, contour, depth of water and the current, so that the proper weight of armor may be selected.

With reference to test pressure which may be required, always refer to the sheets covering the test pressures allowable for the class of insulation called for and see that the requirements are such as can be met. If there are any formal specifications always send them with the order or inquiry.

CHOICE OF CABLES

For station wiring in general, single conductor cables are most conveniently installed, especially if they are of large area. They also work in better with modern switchboard ideas of separation of the different polarities or phases.

In selecting cables for generator leads, potentials exceeding 3000 volts, a larger factor of safety should be allowed than for ordinary cable practice. Since such leads are not usually protected by any circuit-interrupting device, it is good practice to select cable for this purpose with the thickness of insulation designed for 50 per cent. greater than the normal working pressure of the generator.

Large sizes of single conductor cables are undesirable for transmission of alternating current, a fair limitation being 1,000,000 c.m. with 25 cycles and 500,000 with 60 cycles. Customers should refer to the section covering the current carrying capacity of cables and from this table select a conductor sufficiently large for the purpose.

For installation in ducts and in armored cables, the service will largely decide. With direct current circuits, where maximum copper area is desired, single conductors should be used. For low tension direct current mains, single conductor cable is preferable on account of the simplicity of service connections. For alternating current single-phase, use concentric cables for maximum ampere capacity per duct, but flat twin cables are most convenient and cheapest for mains and lines where the area is less than 250,000 c.m.

Flat twin cables require care in installation and are not recommended in sizes larger than 4/0 on account of the tendency to kink. For two conductor cables larger than 4/0 either the two conductors twisted together to make round or the concentric form are recommended.

Flat twin cables cannot be furnished with C.L.A.I. or C.L.A.W. finish. For these finishes either the twisted cores or concentric form of cable must be used for the reason that to successfully apply these special finishes the core must be round.

In three-phase alternating current work, triple conductor is almost a necessity in order to avoid the disturbance of parallel circuits and to reduce to a minimum the loss due to the lead sheath. (If single conductor lead-covered cables are used in alternating current circuits, their sheaths should not be in contact or connected by any low resistance path.)

Single conductor C.L.A.I. or C.L.A.W. cables are not suitable for an A.C. circuit on account of their self-induction.

Where a number of small conductors are to be run in one duct, as a trunk line of series arc circuits, a multiple conductor cable is best, for the following reasons:

(a) Several small cables drawn into one duct are liable to mutual injury during installation.

(b) If one of several cables in a duct burns out, it is almost sure to injure the other cables contained therein.

For underground circuits the cheapest cable is paper. This can be used successfully where the lead is not subject to corrosion. We do not advise the use of sizes smaller than No. 6 B.&S. in the case of single conductor paper insulated cables, as the insulation is likely to be injured by sharp bending in handling.

The best insulation for conductors No. 6 B.&S. and larger, for pressures of 2000 volts and upwards, is varnished cambric leaded, as it costs but little more than paper and, unlike paper, is not affected by electrolysis.

For smaller cables, rubber insulation is recommended.

For submarine cable and for very wet ducts, where severe corrosion is to be expected, use the best rubber insulated cables.

THICKNESS OF INSULATION

With low tension cables (1000 volts or less) thickness of insulation is largely dependent on mechanical considerations, such as size and weight of cable, etc. As the thickness of insulation increases, these mechanical considerations become of relatively less importance and the thickness of insulation is dependent on the puncturing effect. For three-phase alternating current, delta connected, it is advisable to divide insulation, putting one-half the thickness around each conductor and the other half surrounding the three conductors in the form of a jacket or belt. This gives the same total thickness of insulation between conductors and between each conductor and the ground. With three-phase circuits, Y connected, with the neutral of the circuit grounded, thickness of the outer jacket can be reduced to one-half the thickness of the insulation on the individual conductors since the pressure to ground is approximately .7 per cent. of the pressure between conductors.

WIRES AND CABLES

SELECTION OF FINISH ON CABLES FOR UNDERGROUND, SUBMARINE AND MINE USE

For use in clean, dry ducts, wooden boxes, or in any situation where the cable is not open to mechanical injury, nor liable to corrosion, we recommend the use of the plain lead finish (C.L.).

For wet ducts, mines, or other places where corrosion (but not mechanical injury) is to be feared, and for burying directly in clean earth with a protecting plank, or tile, laid above the cable, use a jute and asphalt jacket over the lead (C.L.A.).

Where mechanical injury is to be guarded against, as where the cable is cleated up on the side of the sewer, in horizontal mine tunnels, or buried in a street, use the band steel armor over the jute and asphalted lead (C.L.A.I.).

All of the above cables are intended to be supported practically continuously, and are not suitable for vertical suspension in long lengths.

For submarine work and for suspension in vertical, or approximately vertical mine shafts, use wire armored (C.L.A.W.) instead of band steel armored (C.L.A.I.) cables. Cables of this class may be suspended vertically for distances of 1000 feet, the entire strain being taken by the wire armor.

SIZES OF DUCTS

The standard size of duct in general use is one having an inside diameter of from 3 in. to 3 1/4 in. Such a duct, if well laid, will permit of the installation of the following cables:

Working pressure not to exceed 1500 volts; largest cable 2,500,000 c.m. single-conductor; or a two-conductor 1,000,000 c.m. concentric cable; or a three-conductor 400,000 c.m. cable.

For 1500 to 3000 volts working pressure: Largest cable 2,000,000 c.m. single-conductor; or a two-conductor 750,000 c.m. concentric cable; or a three-conductor 400,000 c.m. cable.

For 6600 volts working pressure, three-phase delta: the largest cable to be recommended is a three-conductor 250,000 c.m. cable.

For 13200 volts, three-phase; three-conductor 4/0.

For 20,000 volts, three-phase; three-conductor 1/0.

It is always advisable to select a cable about as large as a duct will contain, as in this way the investment in ducts for a given amount of current transmitted is reduced to the minimum.

TESTS

All our copper wire is tested for conductivity, tensile strength and ductility by our Testing Laboratory. These tests are independent of tests made on finished wires and cables. The conductivity of soft drawn wire may be guaranteed to equal 98 per cent. or over, and the conductivity of hard drawn wire, 96 per cent. Matthiessen standard.

All Wires and Cables are tested before shipment. A pressure test of at least twice the working pressure is applied. After the pressure test an insulation test is made with a 500 volt battery and delicate reflecting galvanometer.

Testing of cables at abnormally high pressure should be discouraged. A reasonable rule is to test them for 5 minutes with 2 1/2 times the working pressure or for 30 minutes with twice the working pressure, this of course being the tests made at the factory. Tests made on cables installed should be approximately 20 per cent. lower. Customers should appreciate the fact that in order to do this manufacturers must construct cable to stand test at least 25 per cent. more severe than those prescribed in order that there may be no delay or expense caused by cables breaking down in test.

DIAMETERS, WEIGHTS, AND RESISTANCE OF ANNEALED COPPER WIRE

No. B.&S.	Dia. Mils	Area Circular Mils	WT., BARE WIRE		RESISTANCE AT 75° FAHRENHEIT			No. B.&S.	Dia. Mils	Area Circular Mils	WT., BARE WIRE		RESISTANCE AT 75° FAHRENHEIT		
			Lb. Per 1000 Feet	Lb. Per Mile	Ohms Per 1000 Feet	Ohms Per Mile	Feet Per Ohm				Lb. Per 1000 Feet	Lb. Per Mile	Ohms Per 1000 Feet	Ohms Per Mile	Feet Per Ohm
0000	460.000	211600.0	640.73	3383.04	.04904	.25891	2093.92	19	35.890	1288.09	3.90	20.594	8.0555	42.5329	124.14
000	409.640	167805.0	508.12	2682.85	.06184	.32649	16172.1	20	31.961	1021.44	3.09	16.331	10.1584	53.6362	98.44
00	364.800	133079.0	402.97	2127.66	.07797	.41168	12825.4	21	28.462	810.09	2.45	12.952	12.8088	67.6302	78.07
0	324.950	105592.5	319.74	1688.20	.09827	.51885	10176.4	22	25.347	642.47	1.95	10.272	16.1504	85.2743	61.92
1	289.300	83694.5	253.43	1338.10	.12398	.65460	8066.0	23	22.571	509.45	1.54	8.145	20.3674	107.540	49.10
2	257.630	66373.2	200.98	1061.17	.15633	.82543	6396.7	24	20.100	404.01	1.22	6.4593	25.6830	135.606	38.94
3	229.420	52633.5	159.38	841.50	.19714	1.04090	5072.5	25	17.900	320.41	.97	5.1227	32.3833	170.984	30.88
4	204.310	41742.6	126.40	667.38	.24858	1.31248	4022.9	26	15.940	254.08	.77	4.0623	40.8377	215.623	24.49
5	181.940	33102.2	100.23	529.23	.31346	1.65507	3190.2	27	14.195	201.50	.61	3.2215	51.4952	271.895	19.42
6	162.020	26250.5	79.49	419.69	.39528	2.08706	2529.9	28	12.641	159.80	.48	2.5548	64.9344	342.854	15.40
7	144.280	20816.7	63.03	332.82	.49845	2.63184	2006.2	29	11.257	126.72	.38	2.0260	81.8827	432.341	12.21
8	128.490	16509.7	49.99	263.96	.62849	3.31843	1591.1	30	10.025	100.50	.30	1.6068	103.245	545.133	9.686
9	114.430	13094.2	39.65	209.35	.79242	4.18400	1262.00	31	8.928	79.71	.24	1.2744	130.176	687.327	7.682
10	101.890	10381.6	31.44	165.98	.99948	5.27726	1000.50	32	7.950	63.20	.19	1.0105	164.174	866.837	6.091
11	90.742	8234.11	24.93	131.65	1.26020	6.65357	793.56	33	7.080	50.13	.15	.8014	207.000	1092.96	4.831
12	80.808	6529.94	19.77	104.40	1.5890	8.39001	629.32	34	6.304	39.74	.12	.6354	261.099	1378.60	3.830
13	71.961	5178.39	15.68	82.792	2.0037	10.57980	499.06	35	5.614	31.52	.10	.5039	329.225	1738.31	3.037
14	64.084	4106.76	12.44	65.658	2.5266	13.34050	395.79	36	5.000	25.00	.08	.3997	415.047	2191.45	2.409
15	57.068	3256.76	9.86	52.069	3.1860	16.8223	313.87	37	4.453	19.83	.06	.3170	523.278	2762.91	1.911
16	50.820	2582.67	7.82	41.292	4.0176	21.2130	248.90	38	3.965	15.72	.05	.2513	660.011	3484.86	1.515
17	45.257	2048.20	6.20	32.746	5.0660	26.7485	197.39	39	3.531	12.47	.04	.1993	832.228	4394.16	1.2020
18	40.303	1624.33	4.92	25.970	6.3880	33.7285	156.54	40	3.144	9.88	.03	.1580	1049.718	5542.51	.9526

WIRES AND CABLES

COPPER WIRE—COMPARATIVE TABLE

Table of wire gauges giving a comparison of the Brown & Sharpe, or American (B.&S.); the Birmingham (B.W.G.); and the British Standard (S.W.G.) wire gauges.

GAUGE NOS.			DIA. IN INS.			GAUGE NOS.			DIA. IN INS.			GAUGE NOS.			DIA. IN INS.		
B.&S.	B.W.G.	S.W.G.	B.&S.	B.W.G.	S.W.G.	B.&S.	B.W.G.	S.W.G.	B.&S.	B.W.G.	S.W.G.	B.&S.	B.W.G.	S.W.G.	B.&S.	B.W.G.	S.W.G.
0000	0000	000000	.4600	.454	.464	11	13	13	.0907	.095	.092						
	000	00000		.425	.432	12	14	14	.0808	.083	.080	28	29	29	.0126	.013	.0136
000		00000	.4096		.400	13	15	15	.0720	.072	.072	29	30	30	.0113	.012	.0124
00	00	000	.3648	.380	.372	14	16	16	.0641	.065	.064						.0108
0	0	00	.340	.348	.348	15	17	17	.0571	.058	.056	30	31	33	.0100	.010	.0100
		0	.3249	.324	.324	16	18	18	.0508	.049	.048	31	32	34	.0089	.009	.0092
	1	1		.300	.300	17	19		.0453	.042		32	33	35	.0080	.008	.0084
1	2	2	.2893	.284	.276	18		19	.0403		.040	33	34	36	.0071	.007	.0076
2	3	3	.2576	.259	.252	19	20	20	.0359	.035	.036						.0068
3	4	4	.2294	.238	.232	20	21	21	.0320	.032	.032	34		38	.0063		.0060
	5	5	.220	.220	.212	21	22	22	.0285	.028	.028	35		39	.0056		.0052
4	6	6	.2043	.203	.192	22	23	23	.0253	.025	.024	36	35	40	.0050	.005	.0048
5	7	7	.1819	.180	.176	23	24	24	.0226	.022	.022	37		41	.0045		.0044
6	8	8	.1620	.165	.160	24	25	25	.0201	.020	.020	38	36	42	.0040	.004	.0040
7	9	9	.1443	.148	.144	25	26	26	.0179	.018	.018	39		43	.0035		.0036
8	10	10	.1285	.134	.128	26	27	27	.0159	.016	.0164			44			.0032
9	11	11	.1144	.120	.116	27	28	28	.0142	.014	.0148	40		45	.0031		.0028
10	12	12	.1019	.109	.104												

DECIMAL EQUIVALENTS

COMMON FRACTIONS AND THEIR DECIMAL EQUIVALENTS

Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal
$\frac{1}{4}$	.0156	$\frac{3}{4}$	.1406	$\frac{1}{2}$	.2656	$\frac{1}{4}$	.3906	$\frac{1}{2}$	.5156	$\frac{1}{4}$	.6406	$\frac{1}{2}$	.7656	$\frac{1}{4}$	.8906
$\frac{1}{2}$	.0313	$\frac{1}{2}$	.1563	$\frac{1}{2}$	.2813	$\frac{1}{2}$	.4063	$\frac{1}{2}$	.5313	$\frac{1}{2}$	.6563	$\frac{1}{2}$	.7813	$\frac{1}{2}$	.9063
$\frac{3}{4}$	.0469	$\frac{1}{4}$	.1719	$\frac{1}{4}$	.2969	$\frac{1}{4}$	.4219	$\frac{1}{4}$	.5469	$\frac{1}{4}$	.6719	$\frac{1}{4}$	.7969	$\frac{1}{4}$	.9219
$\frac{1}{16}$	.0625	$\frac{1}{16}$	.1875	$\frac{1}{16}$	.3125	$\frac{1}{16}$	.4375	$\frac{1}{16}$	.5625	$\frac{1}{16}$	.6875	$\frac{1}{16}$	.8125	$\frac{1}{16}$	.9375
$\frac{1}{8}$	.0781	$\frac{1}{8}$	.2031	$\frac{1}{8}$	.3281	$\frac{1}{8}$	.4531	$\frac{1}{8}$	.5781	$\frac{1}{8}$	.7031	$\frac{1}{8}$	.8281	$\frac{1}{8}$	.9531
$\frac{3}{8}$	.0938	$\frac{3}{8}$	.2188	$\frac{3}{8}$	.3438	$\frac{3}{8}$	.4688	$\frac{3}{8}$	.5938	$\frac{3}{8}$	.7188	$\frac{3}{8}$	.8438	$\frac{3}{8}$	.9688
$\frac{1}{4}$	.1094	$\frac{1}{4}$	.2344	$\frac{1}{4}$	.3594	$\frac{1}{4}$	.4844	$\frac{1}{4}$	.6094	$\frac{1}{4}$	.7344	$\frac{1}{4}$	.8594	$\frac{1}{4}$	.9844
$\frac{1}{8}$	.1250	$\frac{1}{8}$	.2500	$\frac{1}{8}$	.3750	$\frac{1}{8}$	.5000	$\frac{1}{8}$	.6250	$\frac{1}{8}$	.7500	$\frac{1}{8}$	.8750	1	1.0000

STRANDING TABLE

The following table gives data regarding standard concentric strands of different sizes of cable.

The area of the finished cable is that of the individual wires cut at right angles to their axes, when laid straight, multiplied by the number of wires in the cable. Special attention is called to this point, since some manufacturers figure the area of the individual wires as if cut after twisting, that is on the "bias," thus using a figure larger than the actual area of the individual wires and furnishing a cable having less copper than if the area were correctly figured. This frequently results in a cable containing 2 to 3% less copper than would be furnished by the G.E. Co., for the same nominal size.

If any strand but standard is to be used, the customer must state either the size of the individual wires or the number of wires for each size of cable. Extra flexible cables of almost any stranding can be supplied and prices will be quoted on application. It is to be noted that extra flexible strands materially increase the cost of the cable, because:

First.—The wires are finer, making the cost of copper higher.

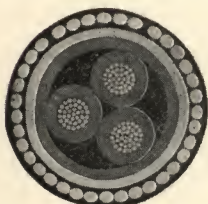
Second.—The diameter is larger than the regular concentric strand, thus increasing the amount of insulation required.

Third.—There is an additional cost for labor in stranding.

Size B. & S.	No. Wires in Strand	Dia. of Individual Wires in Ins.	Actual Circular Mils	Dia. of Bare Cable in Ins.	Approx. Wt. of Copper per M. Ft. in Lb.	Size B. & S.	No. Wires in Strand	Dia. of Individual Wires in Ins.	Actual Circular Mils	Dia. of Bare Cable in Ins.	Approx. Wt. of Copper per M. Ft. in Lb.
14	7	.0243	4,133	.0729	13	350,000	37	.0974	351,010	.6818	1,087
12	7	.0306	6,555	.0918	20	400,000	37	.1040	400,198	.7280	1,242
10	7	.0386	10,430	.1158	32	450,000	37	.1110	455,877	.7770	1,415
8	7	.0485	16,466	.1455	51	500,000	61	.0906	500,710	.8154	1,554
6	7	.0613	26,304	.1839	81	550,000	61	.0950	550,525	.8550	1,709
5	7	.0688	33,134	.2064	103	600,000	61	.0992	600,279	.8928	1,864
4	7	.0773	41,827	.2319	129	650,000	61	.1033	650,924	.9297	2,020
3	7	.0868	52,740	.2604	164	700,000	61	.1072	701,002	.9648	2,177
2	7	.0974	66,407	.2922	206	750,000	61	.1110	751,581	.9990	2,333
1	19	.0664	83,770	.3320	259	800,000	61	.1146	801,123	1.0314	2,487
0	19	.0746	105,738	.3750	328	900,000	61	.1216	901,980	1.0944	2,813
00	19	.0838	133,426	.4190	414	1,000,000	61	.1281	1,000,986	1.1529	3,110
000	19	.0940	167,884	.4700	520	1,250,000	91	.1173	1,252,095	1.2903	3,888
0000	19	.1056	211,876	.5280	658	1,500,000	91	.1284	1,500,276	1.4124	4,660
250,000	37	.0823	250,612	.5754	775	1,750,000	127	.1173	1,747,430	1.5262	5,435
300,000	37	.0906	303,709	.6342	943	2,000,000	127	.1255	2,000,282	1.6315	6,212

WIRES AND CABLES

SPECIAL FINISHES



Three-Conductor 250,000 Cm.,
11,000 Volt Wire Armored
Cable

Special finishes are applied to leaded cables for the preservation of the lead from corrosion and mechanical injury.

The C.L.A. finish (conductor, lead, asphalt) consists of a regular leaded cable protected as follows:

- 1st—Coat of compound.
- 2d —Wrap of treated paper.
- 3d —Coat of compound.
- 4th—Wrap of tarred jute.
- 5th—Coat of compound.
- 6th—Wrap of tarred jute.
- 7th—Coat of compound.
- 8th—Coat of whitening and water, to prevent adhesion of the tarred jute outer wrap when the cable is wound on a reel.

The C.L.A.I. finish (conductor, lead, asphalt, iron) is like the C.L.A. finish with the addition of a double steel tapping which is placed between the two jute wraps. Steel tapes are put on with butted joints, and the outer tape covers the joint in the inner tape.

The C.L.A.W. finish (conductor, lead, asphalt, wire) contains galvanized steel wire armor placed between the jutes, instead of the band steel armor above mentioned.

The jute and asphalt jacket is recommended for use in mines, in wet ducts, and also underground where it can be protected from mechanical injury by laying a tile or board over it.

The band steel armor cable is the well-known English and Continental type of cable for use underground without conduit. It is also a very good type of cable for mine work in horizontal runs where cable is liable to mechanical injury.

The C.L.A.W. or wire armor type is the standard type for submarine cables and for suspending in vertical mine shafts where the weight of the cable has to be carried by the armor.

It should be noted that these last two finishes when applied to two-conductor cable, require that the two conductors be twisted together with a jute filler to make up a circular section, since these types of armor cannot be applied on an oval lead cable. The C.L.A. and C.L.A.I. types are especially useful as service cables in connection with a conduit system.

Braided cables can be supplied with asbestos braids where it is desirable to flameproof them.

The asbestos braided finish is put on over the regular braid and is filled with a special non-inflammable paint. This finish is especially desirable for station wiring as it protects one cable from an arc in an adjoining cable, and also prevents flame from following along the outside braid.

Dia. Over Lead or Braid in Ins.	Asbestos Braid and Paint Add Dia. 1/10 In.	As- phal- tated Jute Add Dia. 3/10 In.	ASPHALTED JUTE AND BAND IRON			ASPHALTED JUTE AND WIRE ARMOR			Dia. Over Lead or Braid in Ins.	Asbestos Braid and Paint Add Dia. 1/10 In.	As- phal- tated Jute Add Dia. 3/10 In.	ASPHALTED JUTE AND BAND IRON			ASPHALTED JUTE AND WIRE ARMOR		
	Wt. in Lb.	Wt. in Lb.	Wt. in Lb.	Thick Band Iron	Add Dia. In.	Wt. in Lb.	Size Wire	Add Dia. In.		Wt. in Lb.	Wt. in Lb.	Wt. in Lb.	Thick Band Iron	Add Dia. In.	Wt. in Lb.	Size Wire	Add Dia. In.
.30	43	86				655	.095	.60	1.10	158	248	1286	.030	.60	2196	.148	.70
.35	50	97				720	.095	.60	1.20	173	266	1374	.030	.60	2348	.148	.70
.40	57	105				783	.095	.60	1.30	188	287	1465	.030	.60	2980	.180	.80
.45	65	117				826	.095	.60	1.40	200	308	1555	.030	.60	3202	.180	.80
.50	72	126	748	.030	.60	1171	.134	.68	1.50	215	327	1643	.030	.60	3421	.180	.80
.55	79	136	791	.030	.60	1234	.134	.68	1.60	230	347	2454	.050	.70	3562	.180	.80
.60	86	146	843	.030	.60	1298	.134	.68	1.70	245	368	2580	.050	.70	3785	.180	.80
.65	93	155	882	.030	.60	1362	.134	.68	1.80	258	387	2703	.050	.70	3913	.180	.80
.70	100	165	927	.030	.60	1426	.134	.68	1.90	273	407	2828	.050	.70	4134	.180	.80
.75	108	177	974	.030	.60	1664	.148	.70	2.00	288	428	2953	.050	.70	4265	.180	.80
.80	115	188	1020	.030	.60	1741	.148	.70	2.10	303	447	3076	.050	.70	4952	.203	.85
.85	123	198	1065	.030	.60	1818	.148	.70	2.20	315	468	3202	.050	.70	5107	.203	.85
.90	129	207	1107	.030	.60	1891	.148	.70	2.30	330	488	3326	.050	.70	5353	.203	.85
.95	137	217	1153	.030	.60	1968	.148	.70	2.40	345	507	3450	.050	.70	5600	.203	.85
1.00	144	227	1198	.030	.60	2045	.148	.70	2.50	360	528	3575	.050	.70	5850	.203	.85

CURRENT CARRYING CAPACITY OF INSULATED CABLES

In the following table, insulated cables are divided into two classes, viz.: when designed to carry a pressure not exceeding 3000 volts, they are called "Low Tension Cables," but for voltages above 3000 they are termed "High Tension Cables." Figures for Low Tension Cables are based on direct current; High Tension Cables on 60 cycle A.C.

The tabulated figures are based on the use of single conductor low tension cables and triple conductor high tension cables; all cables are drawn into ducts and used under normal conditions. It is intended that the data here presented should be taken only as a guide for actual service since the safe carrying capacity of any cable will necessarily vary with changes in the surrounding local conditions, such as atmospheric temperatures, proximity to steam pipes, etc.

A cable that is immersed in water will carry about 50 per cent. more current with a given rise of temperature than it will when run in a dry duct; buried in earth 10 per cent. to 25 per cent., depending on the character of the soil.

The effective radiating surface is evidently much less in conduits where a large number of ducts are built compactly together, than in cases where there are only a few ducts in parallel. It is, therefore, the safest practice to fix the allowable load on cables by a temperature limit, and experience has shown that the maximum temperature

WIRES AND CABLES

CURRENT CARRYING CAPACITY OF INSULATED CABLES (Concluded)

which cables should be permitted to attain is 50° C. for rubber and 80° C. for varnished cambric and paper insulation. At any higher temperatures there is great danger of permanent injury to the insulation, and all continuous working pressures should be kept well below these figures.

As varnished cambric and paper will stand a higher temperature than rubber, without deterioration, it follows that a varnished cambric or paper insulated cable will carry more current than one of the same size insulated with rubber. This rule should, however, be applied only to **Low Tension Cables** because the **Puncture Resistance** of all insulators decreases with increase of temperature. Paper cables with the same amount of current as varnished cambric or rubber cable will run about 10 per cent. hotter, the insulation being of the same thickness in each case.

The table gives the maximum continuous load in amperes for high and low tension cables with rubber and varnished cambric or paper insulation, the ultimate rise in temperature being marked at the head of each column. For high tension single conductor, use figures given for single conductor rubber.

Under ordinary conditions a cable will attain about 60 per cent. of its total rise in temperature during the first hour, 90 per cent. during the second hour, the final maximum being gradually reached after several hours.

Concentric cables will safely carry about 20 per cent. less current on each conductor than the same size of single conductor cable. Four-conductor cables, 10 per cent. less than same size triple conductor. All temperatures given refer to temperatures of copper core.

INITIAL TEMPERATURE, 20° C.

MILNE TENSION TABLE, 25 ° C.										
Size of Cable in Circular Mils	National Electric Code 1907 Rubber	LOW TENSION CABLE SINGLE CONDUCTOR		HIGH TENSION CABLE THREE CONDUCTOR	Size of Cable in Circular Mils	National Electric Code 1907 Rubber	LOW TENSION CABLE SINGLE CONDUCTOR		HIGH TENSION CABLE THREE CONDUCTOR	
		Rubber 30° C. Rise	Var. Cam. or Paper 60° C. Rise	Rubber and Var. Cam. 30° C. Rise Paper, 35° C. Rise			Rubber 30° C. Rise	Var. Cam. or Paper 60° C. Rise	Rubber and Var. Cam. 30° C. Rise Paper, 35° C. Rise	
		Amp.	Amp.	Amp. on Each Conductor			Amp.	Amp.	Amp. on Each Conductor	
2,000,000	1050	1400	1750		150,000	160	220	260	175	
1,500,000	850	1200	1500		125,000	140	180	210	140	
1,000,000	650	900	1150		100,000	120	160	190	125	
750,000	525	750	900		80,000	104	140	165	110	
500,000	390	550	660	440	60,000	82	110	130	85	
400,000	330	460	560	360	40,000	63	75	90	60	
300,000	270	370	450	290	6 B. & S. solid	46	50	60	40	
250,000	235	320	390	250	8 B. & S. solid	33	30	36	24	
200,000	200	270	310	210	10 B. & S. solid	24	20	24	16	

LARGE CABLES ON A.C. CIRCUITS

Owing to the fact that alternating current flowing in large cables has greater density on the surface of the conductor than in the center (so-called skin effect), an ordinary cable will not carry as much alternating current with the same temperature rise as direct current. In order to overcome this it is advisable on single conductor cables, 700,000 c.m., and larger for 60 cycle circuits and 1,250,000 c.m., and larger for 25 cycle circuits, to make up the cable with a fibre core and the copper stranded around it. The weight of copper in this type of cable is the same per foot as in an ordinary cable, but owing to its annular cross section the cable is much more efficient in carrying alternating current and also has a somewhat greater current carrying capacity due to the larger radiating surface. These copper strands can be insulated with any desired type of insulation.

Size	Dia. Fibre Core in Ins.	No. of Wires in Strand	Size Wire in Strand	Overall Dia. Copper Core	AMP. CAP.	
					30° C.	60° C.
2,000,000	7/8	210	.099	2.065	1400	1750
1,750,000	25/32	210	.091	1.870	1300	1625
1,500,000	11/16	162	.091	1.780	1200	1500
1,250,000	9/16	148	.086	1.590	1150	1400
1,000,000	15/32	98	.102	1.280	900	1150
800,000	11/32	51	.125	1.100	775	925
700,000	9/32	51	.117	.990	700	830

APPROXIMATE OHMIC RESISTANCE AND IMPEDANCE OF THREE CONDUCTOR CABLES

IMPEDANCE OHMS PER MILE								IMPEDANCE OHMS PER MILE							
Size	Resistance Ohms per Mile	Working Voltage						Size	Resistance Ohms per Mile	Working Voltage					
		3000	5000	7000	10000	15000	20000			3000	5000	7000	10000	15000	20000
2	.850	.858	.859	.863	.867	.872	.884	250,000	.227	.245	.245	.252	.261	.272	.299
1	.674	.692	.696	.700	.706	.712	.724	300,000	.188	.210	.210	.217	.227	.241	.270
0	.535	.545	.547	.552	.558	.565	.580	350,000	.161	.187	.187	.194	.204	.217	.250
00	.424	.436	.439	.444	.452	.460	.478	400,000	.141	.166	.166	.174	.185	.199	.234
000	.336	.352	.352	.357	.365	.374	.396	450,000	.127	.148	.148	.156	.167	.182	.221
0000	.267	.280	.283	.288	.296	.306	.332	500,000	.113	.137	.137	.144	.156	.172	.212

Based on pure copper at 75° F. with an allowance of 3 per cent. for spiral path of conductors, 60 cycles per second, and standard thickness of varnished cambric insulation.

Values are practically the same for other types of insulation.

NOTE.—These figures are approximately correct for 98 per cent. conductivity copper at 65° F.

WIRES AND CABLES

CONCENTRIC CABLES



Two-Conductor
1,000,000 C.M. Con-
centric Cable for
Large Feeders on
Single-phase Altern-
ating Circuits or
on Low Tension
Direct Current
Systems

This Company is prepared to furnish Two-Conductor Concentric Cables in sizes up to 1,000,000 c.m., and for working pressures up to 10,000 volts.

This form of cable is specially desirable for use with single-phase alternating or pulsating currents, as the inductive effect on neighboring circuits is practically eliminated.

For alternating current cables protected by a lead sheath, or armored, and also for those run in metal pipes, this concentric form is strongly recommended.

The inductive effect produced by each conductor is neutralized, and, therefore, the loss in the metal covering is reduced to a minimum.

This form of cable may be had in either rubber, varnished cambric, or paper insulation, and with any desired finish.

Paper insulated cable must be leaded, but any desired finish may be furnished over the lead.

A complete line of improved fittings for use with concentric cables can be furnished.

REELS

The following table gives the maximum number of feet of wire or cable that can be shipped on standard reels. For example, a No. 6 reel will take 1500 feet of cable, the outside diameter of which is not more than .25 in. and total weight not more than 175 lbs.

Overall Dia. of Cable	Reel No. 6 24" x 12"	Reel No. 5 30" x 21"	Reel No. 4 48" x 24"	Reel No. 3 60" x 24"	Reel No. 2 60" x 41"	Reel No. 1 66" x 41"	Overall Dia. of Cable	Reel No. 6 24" x 12"	Reel No. 5 30" x 21"	Reel No. 4 48" x 24"	Reel No. 3 60" x 24"	Reel No. 2 60" x 41"	Reel No. 1 66" x 41"
.25	1500	5500	9000	.....	.....	.....	1.10	.....	.....	830	1250	2500	3120
.30	1050	3900	8000	.....	.....	.....	1.20	.....	.....	730	1100	2200	2750
.35	790	2850	7000	.....	.....	.....	1.20	.....	.....	600	900	1750	2180
.40	600	2075	6000	9700	.....	.....	1.40	.....	.....	530	800	1600	2000
.45	480	1675	5000	7500	.....	.....	1.50	.....	.....	430	650	1300	1620
.50	365	1375	4000	6100	.....	.....	1.60	.....	.....	.....	550	1100	1370
.55	260	1100	3400	5100	9900	12400	1.70	.....	.....	.....	490	1000	1250
.60	240	890	2930	4400	8300	10400	1.80	.....	.....	.....	420	850	1060
.65	220	785	2430	3700	7150	8900	1.90	.....	.....	.....	400	800	1000
.70	165	650	2120	3180	6100	7600	2.00	.....	.....	.....	375	720	900
.75	145	580	1760	2650	5200	6500	2.25	.....	.....	.....	270	550	690
.80	.....	550	1460	2200	4400	5500	2.50	.....	.....	.....	220	460	570
.90	.....	410	1180	1780	3580	4470	3.00	.....	.....	.....	165	360	450
1.00	.....	300	1000	1500	3000	3750							

APPROXIMATE MAXIMUM WEIGHT OF CABLE PER REEL

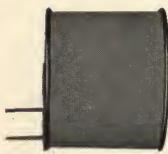
APPROXIMATE WEIGHT OF REEL WITH SLATS

175 lbs.	500 lbs.	1500 lbs.	2500 lbs.	5000 lbs.	6250 lbs.	36 lbs.	100 lbs.	240 lbs.	495 lbs.	650 lbs.	760 lbs.
APPROXIMATE WEIGHT OF EMPTY REEL						NET BILLING PRICE EACH					
24 lbs.	70 lbs.	190 lbs.	345 lbs.	415 lbs.	465 lbs.	\$1.75	\$2.50	\$7.50	\$10.00	\$15.00	\$20.00

All reels are charged at prices mentioned above but full credit is allowed when reels are returned in good condition f.o.b. factory.

ENAMELED WIRE

These spools are the same size and each contains 8400 turns of No. 28 B.&S. copper wire.



This Winding of Single-
Cotton-Covered Wire is
15/16 in. deep and
weighs 2.8 lb.



This Winding of En-
ameled Wire is 9/16 in.
deep and weighs only
2.2 lb.

COMPARISON OF DIAMETERS

Size B.&S.	Single Cotton- Covered	Single Silk- Covered	Enameled	Size B.&S.	Single Cotton- Covered	Single Silk- Covered	Enameled
24	.0241	.023	.022	32	.012	.0105	.0092
25	.022	.021	.020	34	.0103	.0086	.0073
26	.020	.019	.0175	36	.0085	.0070	.0062
28	.0166	.0156	.0140	38		.0060	.0052
30	.014	.0126	.0113	40		.0050	.0042

The use of enameled wire in this case saves 21 per cent. in weight of wire.

WIRES AND CABLES

ENAMELED WIRE (Concluded)

Enameled Wire is soft-drawn copper wire insulated with multiple coats of baked enamel.

Economy. The comparative table of pounds per thousand feet will show its economy over single cotton-covered wire.

Advantages. The thickness of insulation is approximately half that of single cotton and two-thirds that of single silk-covered magnet wire. This allows a larger number of turns on the same spool or the same number of turns with a less weight of wire. Taking No. 25 B.&S. wire as a representative size, about 25 per cent. more turns can be put in the same space with enameled than with single cotton wire. This percentage of advantage for enameled wire becomes less in the coarser sizes and increases in the finer sizes.

Winding. As the insulation is incompressible, less tension should be used in winding than with ordinary magnet wire.

Radius of Bend. Enameled wire may be bent around a mandrel four times its own diameter, without injury.

Size. Enameled wire can be furnished only in the sizes listed.

Temperature. Owing to the thinness of the insulation and its good heat conductivity, spools wound with enameled wire run at a lower maximum temperature and a lower average temperature than spools of cotton-covered wire under the same conditions. Enameled wire will stand a temperature of 212° F. without injury.

Absorption of Moisture. The insulation will not absorb moisture.

Injury by Oils or Solvents. The wire is uninjured by clean mineral oil. The following materials must not be used in connection with enameled wire: turpentine or materials containing turpentine as a solvent, vegetable or animal oils, alcohol, shellac or the coal-tar solvents.

The table below gives the approximate dimensions, weight and turns per square inch of enameled wire:

Size B.&S.	DIA. IN INS.		COMPARATIVE WT. PER 1000 FT. IN LB.		Turns Per Sq. In. Cross Section	Size B.&S.	DIA. IN INS.		COMPARATIVE WT. PER 1000 FT. IN LB.		Turns Per Sq. In. Cross Section
	Bare	Over Enamel	Single Cotton- Covered	Enameled			Bare	Over Enamel	Single Cotton- Covered	Enamel	
14	.0640	.0670	12.684	12.684	222	27	.0140	.0155	.661	.616	4167
15	.0570	.0600	10.082	10.053	278	28	.0126	.0140	.524	.485	5102
16	.0510	.0535	8.012	7.973	350	29	.0110	.0123	.421	.384	6609
17	.0450	.0475	6.375	6.322	443	30	.0100	.0113	.336	.303	7830
18	.0400	.0420	5.081	5.009	567	31	.0090	.0102	.271	.242	9615
19	.0360	.0380	4.043	3.966	692	32	.0080	.0092	.215	.192	11820
20	.0320	.0340	3.218	3.136	865	33	.0070	.0082	.174	.152	14881
21	.0280	.0305	2.569	2.475	1075	34	.0063	.0075	.141	.121	17778
22	.0250	.0275	2.055	1.970	1322	35	.0056	.0068	.120	.101	21645
23	.0230	.0250	1.630	1.555	1600	36	.0050	.0062	.099	.081	26040
24	.0200	.0220	1.297	1.232	2066	37	.0045	.0057	.090	.061	30855
25	.0180	.0200	1.036	.980	2500	38	.0040	.0052	.080	.0507	37037
26	.0160	.0175	.828	.777	3268	40	.0031	.0043	.060	.0304	54075

Spools charged extra and credited when returned freight prepaid to factory.

Prices on application.

In the absence of specific instructions from the customer where enameled wire is ordered in comparatively large quantities, shipment is made on spools carrying a maximum weight of wire as per table given below:

Size Wire	Max. Wt. Wire Per Spool in Lb.	Size Wire	Max. Wt. Wire Per Spool in Lb.	Size Wire	Max. Wt. Wire Per Spool in Lb.
.064	35	.020	9	.01	3
.057	30	.018	8	.008	2½
.051 to .045	25	.016	7	.007 to .0063	2
.041 to .0255	20	.014	6	.005	1½
.023	10	.0126	5	.004	1
				.003	½

MAGNET WIRE

The General Electric Company manufactures Magnet Wire in all sizes from No. 40 to 0000. It also makes cable of any size required and recommends its use wherever a conductor larger than No. 2 B.&S. is necessary. Rectangular cables also are furnished to order.

Cotton-covered wires are wrapped with fine Sea Island cotton, and only the finest Italian silk is used in preparing the silk-covered wire.

The copper wire used in the manufacture of Magnet Wire is of 98% conductivity, carefully gauged for size and insulation thickness and is the best of its kind for the purpose.

Magnet Wires are furnished round, square or flat and with one, two or three coverings or wraps. The coverings are usually cotton, although on the smaller sizes of round magnet wire silk is often used. When cotton is used the various wraps are designated as follows: Single cotton-covered (S.C.C.), double cotton-covered (D.C.C.), triple cotton-covered (T.C.C.). Silk magnet wire is rarely furnished in more than two coverings and is designated as follows: Single silk-covered (S.S.C.) or double silk-covered (D.S.C.).

Magnet Wire may also be supplied with asbestos next to the copper core with one or two cotton wraps on the outside.

WIRES AND CABLES

MAGNET WIRE (Concluded)

In the absence of specific instructions from the customer, where magnet wire is ordered in comparatively large quantities, shipment is made on spools carrying a maximum weight of wire as in the following table:

Size Wire	Max. Wt. Wire Per Spool in Lb.	Size Wire	Max. Wt. Wire Per Spool in Lb.	Size Wire	Max. Wt. Wire Per Spool in Lb.	Size Wire	Max. Wt. Wire Per Spool in Lb.
.091 and larger	200	.020	9	.0126	5	.0063	2
.090 to .061	175	.018	8	.010	3	.005	1½
.058 to .042	40	.016	7	.008	2½	.004	1
.040 to .0255	20	.014	6	.007	2	.003	½
.023	10						

DIAMETERS AND WEIGHTS OF SMALL SIZES

Size B.&S.	DIAMETERS				WT. IN LB. PER 1000 FT.				Size B.&S.	DIAMETERS				WT. IN LB. PER 1000 FT.			
	S.C.C.	D.C.C.	S.S.C.	D.S.C.	S.C.C.	D.C.C.	S.S.C.	D.S.C.		S.C.C.	D.C.C.	S.S.C.	D.S.C.	S.C.C.	D.C.C.	S.S.C.	D.S.C.
14	.0700	.0740	....	....	12.684	12.918	....	....	27	.0180	.0220	.0170	.0200	.661	.703	.631	.666
15	.0630	.0670	....	....	10.082	10.274	....	....	28	.0166	.0206	.0156	.0186	.524	.562	.499	.521
16	.0560	.0590	....	....	8.012	8.176	....	....	29	.0153	.0193	.0140	.0170	.421	.457	.397	.416
17	.0500	.0530	....	....	6.375	6.510	....	....	30	.0140	.0180	.0125	.0150	.336	.372	.315	.332
18	.0450	.0480	....	....	5.081	5.188	....	....	31	.0130	.0170	.0114	.0139	.271	.307	.254	.267
19	.0400	.0440	....	....	4.043	4.130	....	....	32	.0119	.0159	.0105	.0130	.215	.248	.203	.214
20	.0360	.0400	....	....	3.218	3.289	....	....	33	.0110	.0150	.0095	.0120	.174	.201	.161	.172
21	.0325	.0365	....	....	2.569	2.628	....	....	34	.0103	.0143	.0088	.0113	.141	.161	.130	.140
22	.0294	.0334	....	....	2.055	2.106	....	....	35	.0096	.0136	.0076	.0096	.120	.137	.110	.119
23	.0265	.0305	.0260	.0290	1.630	1.676	1.573	1.604	36	.0085	.0120	.0070	.0090	.099	.112	.089	.096
24	.0241	.0280	.0230	.0260	1.297	1.344	1.241	1.298	38	....	....	.0060	.0080	....	....	.058	.065
25	.0220	.0260	.0210	.0240	1.036	1.082	.991	1.040	40	....	....	.0050	.0070	....	....	.037	.040
26	.0200	.0240	.0190	.0220	.828	.873	.791	.833									

WEATHERPROOF AND SLOW BURNING

Standard weatherproof wires and cables are manufactured strictly in accordance with the requirements of the National Board of Fire Underwriters with three braids, placed directly over the copper core, thoroughly impregnated with a black, weatherproofing compound and then polished to remove all superfluous compound and give a smooth exterior finish. Double braid weatherproof wire furnished on order.

When the number of braids is not specified, wire with three braids (commonly called triple braid) is always furnished; if double braid is required, requisitions or requests for quotations should so state. A stock of triple braid wire is carried.

Slow Burning Weatherproof wires and cables are divided into two classes, black finish and white finish.

Black Finish wire has three braids, two braids filled with white flameproof paint next to the copper and one braid on the outside filled with weatherproof compound. As this wire is not approved by the Underwriters we do not carry a stock but will furnish on order.

White Finish wire has three braids, one braid filled with weatherproof compound next to the copper and two braids on the outside filled with white flameproof paint. There is more or less difficulty in the manufacture due to the black compound penetrating the outer braids and discoloring the finish. By a special process we have been able to overcome this objection and while we do not carry a stock, are prepared to furnish it on order.

Slow Burning, formerly called **Underwriters'** wire has also three braids; all braids are thoroughly soaked in white flameproof paint, then polished. This wire is approved by the Underwriters and a reasonable stock of the standard sizes is carried.

The weights given are only approximate and may vary 3% either way. We never guarantee the weight of our weatherproof and slow burning wires and cables and therefore our quotations are always on a per pound basis.

The subject of weights of weatherproof wire and cable, either double or triple braid, is fully covered by tables on the following pages.

Weatherproof wire up to and including No. 4 B.&S. is shipped in coils of about 1000 ft. each. The sizes from No. 1 B.&S. to 0000 B.&S. inclusive are shipped on drums 30" x 30" holding 500 to 600 lbs. of insulated wire. Weatherproof cables are shipped in 1000 ft. lengths, but can be made in continuous lengths up to 5000 lb. weights if desired.

For export or shipment over long distances, any of the following, ordinarily shipped on reels, can be shipped in coils. If a special package is required, special mention must be made on the order.

WIRES AND CABLES

WEATHERPROOF AND SLOW BURNING (Continued)

APPROXIMATE WEIGHTS

PER 1000 FT.—SOLID

Size B.&S.	WEATHERPROOF		SLOW BURNING			Size B.&S.	WEATHERPROOF		SLOW BURNING		
	D.B.	T.B.	Black	White	Under- writers'		D.B.	T.B.	Black	White	Under- writers'
4/0-	723	767	862	870	925	6	100	112	127	140	160
3/0	587	629	710	720	760	8	66	75	85	95	100
2/0	467	502	562	568	600	10	46	53	60	70	80
1/0	377	407	462	470	495	12	30	35	42	52	55
1	294	316	340	350	365	14	20	25	30	40	40
2	239	260	280	290	320	16	16	20	24	30	30
4	151	164	190	200	220						

PER MILE—SOLID

4/0	3817	4050	4550	4600	4890	6	529	590	670	740	845
3/0	3098	3320	3750	3800	4020	8	349	395	450	500	530
2/0	2467	2650	2970	3000	3170	10	241	280	315	370	420
1/0	1989	2150	2440	2475	2610	12	158	185	220	275	290
1	1553	1670	1800	1850	1930	14	107	130	160	210	210
2	1264	1370	1480	1530	1690	16	83	105	130	160	160
4	795	865	1000	1055	1160						

APPROXIMATE DIAMETERS

SOLID

Size B.&S.	WEATHERPROOF		SLOW BURNING			Size B.&S.	WEATHERPROOF		SLOW BURNING		
	D.B.	T.B.	Black	White	Under- writers'		D.B.	T.B.	Black	White	Under- writers'
4/0	.610	.660	.660	.660	.660	6	.278	.303	.303	.303	.303
3/0	.560	.595	.595	.595	.595	8	.245	.264	.264	.264	.264
2/0	.515	.550	.550	.550	.550	10	.197	.221	.221	.221	.221
1/0	.470	.505	.505	.505	.505	12	.172	.200	.200	.200	.200
1	.405	.445	.445	.445	.445	14	.155	.182	.182	.182	.182
2	.374	.400	.400	.400	.400	16	.142	.169	.169	.169	.169
4	.320	.346	.346	.346	.346						

APPROXIMATE WEIGHTS

PER 1000 FT.—STRANDED

Size B.&S.	WEATHERPROOF		SLOW BURNING			Size B.&S.	WEATHERPROOF		SLOW BURNING		
	D.B.	T.B.	Black	White	Under- writers'		D.B.	T.B.	Black	White	Under- writers'
2,000,000	6690	7008	7540	.....	.....	350,000	1248	1345	1500	1460	1440
1,750,000	5894	6193	6700	.....	.....	300,000	1083	1174	1310	1290	1270
1,500,000	5098	5380	5830	.....	.....	250,000	907	985	1120	1080	1060
1,250,000	4264	4508	4940	.....	.....	0000	745	800	960	910	900
1,000,000	3456	3674	3980	3880	3860	000	604	653	785	745	735
900,000	3127	3332	3640	3540	3520	00	482	522	625	590	583
800,000	2799	2992	3280	3200	3180	0	388	424	510	485	480
750,000	2635	2822	3100	3020	3000	1	303	328	380	360	355
700,000	2471	2650	2920	2840	2820	2	246	270	335	300	290
600,000	2093	2235	2460	2370	2350	4	155	170	230	205	195
500,000	1765	1894	2080	2010	1990	6	103	115	165	145	132
450,000	1601	1724	1900	1840	1820	8	68	78	105	97	87
400,000	1436	1553	1700	1670	1650						

PER MILE STRANDED

2,000,000	35323	37000	.....	.....	39811	350,000	6589	7100	7700	7600	7920
1,750,000	31119	32700	.....	.....	35376	300,000	5721	6200	6800	6700	6917
1,500,000	26915	28400	.....	.....	30782	250,000	4788	5200	5700	5600	5914
1,250,000	22516	23800	.....	.....	26083	0000	3935	4220	4800	4750	5069
1,000,000	18246	19400	20500	20400	21014	000	3190	3450	3930	3880	4145
900,000	16513	17600	18700	18600	19219	00	2544	2760	3120	3080	3300
800,000	14779	15800	16900	16800	17318	0	2051	2240	2560	2530	2693
750,000	13913	14900	15950	15850	16368	1	1599	1735	1910	1870	2006
700,000	13045	14000	15000	14900	15418	2	1301	1425	1585	1540	1769
600,000	11052	11800	12500	12400	12989	4	820	900	1080	1030	1214
500,000	9318	10000	10800	10500	10982	6	544	610	760	695	871
450,000	8452	9100	9700	9600	10032	8	359	410	510	460	554
400,000	7584	8200	8800	8700	8976						

WIRES AND CABLES
WEATHERPROOF AND SLOW BURNING (Concluded)
APPROXIMATE DIAMETERS
STRANDED

Size B.&S.	WEATHERPROOF		SLOW BURNING			Size B.&S.	WEATHERPROOF		SLOW BURNING		
	D.B.	T.B.	Black	White	Under- writers'		D. B.	T.B.	Black	White	Under- writers'
2,000,000	1.844	1.930	1.930	1.930	1.930	350,000	.894	.978	.978	.978	.978
1,750,000	1.740	1.820	1.820	1.820	1.820	300,000	.846	.930	.930	.930	.930
1,500,000	1.624	1.712	1.712	1.712	1.712	250,000	.780	.862	.862	.862	.862
1,250,000	1.500	1.580	1.580	1.580	1.580	0000	.708	.785	.785	.785	.785
1,000,000	1.365	1.451	1.451	1.451	1.451	000	.648	.728	.728	.728	.728
900,000	1.310	1.390	1.390	1.390	1.390	00	.599	.662	.662	.662	.662
800,000	1.243	1.331	1.331	1.331	1.331	0	.555	.605	.605	.605	.605
750,000	1.210	1.300	1.300	1.300	1.300	1	.470	.518	.518	.518	.518
700,000	1.177	1.265	1.265	1.265	1.265	2	.415	.440	.440	.440	.440
600,000	1.105	1.190	1.190	1.190	1.190	4	.353	.379	.379	.379	.379
500,000	1.027	1.108	1.108	1.108	1.108	6	.305	.327	.327	.327	.327
450,000	.984	1.070	1.070	1.070	1.070	8	.270	.290	.290	.290	.290
400,000	.940	1.020	1.020	1.020	1.020						

ASBESTOS STATION CABLES

Voltage—These cables are especially adapted to low tension wiring, 650 volts and less. For higher voltages varnished cambric cables with an asbestos or double Underwriters' braid, are recommended.

Specifications—Asbestos Station Cables are insulated as follows:

First—One Asbestos tape.

Second—Two varnished Cambric Tapes.

Third—Six Asbestos Tapes.

Fourth—One muslin Tape.

The total thickness of these wraps or tapings is approximately 3-32 of an inch. After the application of the muslin tape the cable is run through flame-proof paint, braided with cotton and finished with three coats of flame-proof paint.

Temperature—The copper core or conductor can be run at a temperature sufficient to melt the solder from the terminal sockets—without injury to the insulation.

Not Waterproof—This cable is not waterproof, and must be run on insulators or in dry ducts.

Puncture Test—Asbestos Cables will stand a puncture test of 5,000 volts. This test can be made by wrapping any portion of the cable with tin foil and applying the test voltage between the copper core and the foil.

Size	Dia. in Ins.	Wt. in Lb. Per 1000 Ft.	Size	Dia. in Ins.	Wt. in Lb. Per 1000 Ft.	Size	Dia. in Ins.	Wt. in Lb. Per 1000 Ft.	Size	Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
2	.61	313	0000	.85	828	500000	1.13	1778	900000	1.41	3107
1	.65	360	250000	.89	957	600000	1.21	2110	1000000	1.47	3420
0	.70	459	300000	.95	1135	700000	1.28	2462	1250000	1.61	4235
00	.74	574	350000	1.00	1289	750000	1.32	2608	1500000	1.73	5032
000	.79	678	400000	1.05	1453	800000	1.35	2782	2000000	1.95	6642

RUBBER INSULATED WIRES AND CABLES

Three types of rubber insulation have been standardized; Red Core, Tricoat and 30% Para (Black or White Core). In addition we are prepared to manufacture special types and grades of rubber insulated conductors to U. S. Navy, Army and other Government departments, Railway Signal Wire and wire to meet unusual conditions.

Red Core is a high class insulation used primarily on wires for house wiring and meeting all the requirements of the Board of Fire Underwriters.

Tricoat insulation was designed for customers desiring a very high grade wire, somewhat better than Red Core, but whose requirements do not justify the more expensive 30% grade.

30% Para insulation meets the 1907 Specifications of the Rubber Covered Wire Engineers' Association and is the best rubber compound for absolutely high grade work. The core may be white or black at the option of customers. The full specifications to which this compound is manufactured are published in the pages following.

Always specify type of insulation wanted.

Tape and one braid over the rubber are considered by the Underwriters as filling the requirements of wires for unlined conduits.

All rubber covered wires and cables are given a high potential test before leaving the factory.

RUBBER COVERED WIRE ENGINEERS' ASSOCIATION 1907

SPECIFICATIONS FOR 30 PER CENT. RUBBER INSULATING COMPOUND

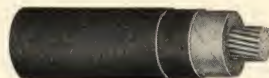
The compound shall contain not less than 30 per cent. by weight of fine dry Para Rubber which has not previously been used in Rubber compounds. The composition of the remaining 70 per cent. shall be left to the discretion of the manufacturer.

Chemical.—The vulcanized rubber compound shall contain not more than 6 per cent. by weight of Acetone Extract. For this determination, the Acetone extraction shall be carried on for 5 hours in a Soxhlet extractor, as improved by Dr. C. O. Weber.

Size	THICKNESS OF INSULATION IN INCHES										Size	THICKNESS OF INSULATION IN INCHES									
	3/64	2/32	5/64	3/32	7/64	4/32	5/32	6/32	7/32	8/32		3/64	2/32	5/64	3/32	7/64	4/32	5/32	6/32	7/32	8/32
1,000,000 c.m.	300	340	420	490	560	630	0 Strand	...	...	600	710	800	890	1060	1210	1350	1470
900,000 c.m.	320	360	440	510	590	660	1 Solid	...	...	750	870	970	1080	1270	1440	1600	1740
800,000 c.m.	330	380	460	540	610	690	2 Solid	...	680	820	950	1070	1170	1380	1560	1720	1870
700,000 c.m.	350	400	490	570	650	730	3 Solid	...	750	900	1040	1160	1280	1490	1680	1850	2000
600,000 c.m.	380	430	520	610	690	770	4 Solid	...	820	980	1130	1260	1380	1610	1800	1980	2140
500,000 c.m.	360	410	460	570	660	750	830	5 Solid	...	910	1070	1230	1370	1500	1740	1940	2130	2290
400,000 c.m.	400	450	510	620	720	820	910	6 Solid	...	990	1160	1330	1480	1610	1860	2070	2260	2430
300,000 c.m.	450	520	580	700	810	910	1010	8 Solid	...	1170	1370	1560	1720	1870	2140	2360	2570	2750
250,000 c.m.	490	560	630	750	870	980	1090	9 Solid	1040	1280	1490	1680	1850	2000	2280	2520	2730	2910
0000 Strand	450	530	610	680	820	940	1060	1170	10 Solid	1130	1390	1610	1810	1990	2150	2440	2680	2890	3000
000 Strand	500	590	670	740	890	1020	1150	1270	12 Solid	1340	1620	1860	2080	2270	2440	2750	3000	3220	3420
00 Strand	560	650	740	820	980	1130	1260	1380	14 Solid	1550	1860	2120	2360	2560	2740	3060	3320	3550	3750

WIRES AND CABLES

RUBBER INSULATED (Continued)



**500,000 CM Double Braided 15,000
Volt Cable for High Tension
Station Wiring**

N. E. CODE

SINGLE CONDUCTOR—SOLID AND STRANDED—SINGLE BRAID

Size	SOLID		Wt. in Lb.	STRANDED		Wt. in Lb.
	Thickness of Insulation in Ins.	Dia. in Ins.		Thickness of Insulation in Ins.	Dia. in Ins.	
0000	5/64	.71	794	5/64	.78	835
000	5/64	.66	648	5/64	.72	683
00	5/64	.62	533	5/64	.67	563
0	5/64	.58	438	5/64	.63	464
1	5/64	.54	362	5/64	.59	381
2	1/16	.45	273	1/16	.51	289
3	1/16	.42	230	1/16	.45	240
4	1/16	.40	187	1/16	.42	197
5	1/16	.37	159	1/16	.40	165
6	1/16	.35	130	1/16	.37	139
8	3/64	.27	81	3/64	.29	86
9	3/64	.26	72	3/64	.28	79
10	3/64	.24	58	3/64	.26	63
12	3/64	.22	43	3/64	.22	46
14	3/64	.20	33	3/64	.21	35
16	1/32	.17	25	1/32	.20	28
18	1/32	.16	20	1/32	.19	23
19	1/32	.16	15	1/32	.17	16
20	1/32	.15	14	1/32	.16	15

Add 1/16 in. to diameter of single braid for double braid.

DUPLEX, TWO CONDUCTOR, SOLID

Size	Thick. Insulation	Dimensions in Ins.	Wt. in Lb.	Size	Thick. Insulation	Dimensions in Ins.	Wt. in Lb.
8	3/64	.33 x .57	214	12	3/64	.28 x .47	126
10	3/64	.30 x .52	162	14	3/64	.26 x .43	100

One braid on each conductor and one braid over both (equivalent to double braid.)
Prices on application.

FIXTURE WIRE

Old Code, single braid, both solid and stranded, $\frac{1}{64}$ in. rubber, commonly known as light fixture wire.
New Code, $\frac{3}{32}$ in. rubber, commonly known as heavy fixture wire.

Size	LIGHT INSULATION				HEAVY INSULATION			
	Solid		Stranded		Solid		Stranded	
	Wt.	Dia. Ins.	Wt.	Dia. Ins.	Wt.	Dia. Ins.	Wt.	Dia. Ins.
14	18.5	.13	19.5	.16	33	.20	35	.21
16	13	.12	15	.15	17.5	.15	20	.18
18	9	.11	11.5	.14	13.5	.14	16	.17
19	8	.10	10	.14	12	.13	15	.17
20	7.5	.09	9.5	.13	11	.12	14	.16

Weight in lbs. per 1000 feet.
Diameter in inches.

WIRES AND CABLES

RUBBER INSULATED (Continued)

N. E. CODE

SINGLE CONDUCTOR—SINGLE BRAID, STRANDED

Size in Cm.	Thickness Insulation in Ins.	Dia. in Ins.	Wt. in Lb.	Size in Cm.	Thickness Insulation in Ins.	Dia. in Ins.	Wt. in Lb.	Size in Cm.	Thickness Insulation in Ins.	Dia. in Ins.	Wt. in Lb.
2,000,000	1/8	1.99	6958	850,000	7/64	1.40	3233	500,000	3/32	1.12	1888
1,750,000	1/8	1.90	6394	800,000	7/64	1.36	2959	450,000	3/32	1.09	1791
1,500,000	1/8	1.77	5319	750,000	7/64	1.33	2791	400,000	3/32	1.03	1548
1,250,000	1/8	1.65	4496	700,000	7/64	1.30	2619	350,000	3/32	.98	1381
1,000,000	7/64	1.48	3624	650,000	7/64	1.27	2534	300,000	3/32	.93	1218
950,000	7/64	1.46	3581	600,000	7/64	1.22	2275	250,000	3/32	.87	1032
900,000	7/64	1.43	3400	550,000	7/64	1.20	2182	225,000	3/32	.83	973

Add 1-16 in. to diameter of single braid for double braid.
Prices on application.

National Electric Code leaded wires and cables may be furnished with Red Core, Tricoat or 30% Para Insulation. Prices on application.

LEADED—N.E.C. STANDARD THICKNESS OF INSULATION

SINGLE CONDUCTOR—SOLID

Size	THICK. IN INS.		Wt. in Lb.	Outside Dia. in Ins.	Size	THICK. IN INS.		Wt. in Lb.	Outside Dia. in Ins.	Size	THICK. IN INS.		Wt. in Lb.	Outside Dia. in Ins.
	Rubber	Lead				Rubber	Lead				Rubber	Lead		
14	3-64	3-64	220	.30	10	3-64	3-64	273	.34	6	1-16	3-64	389	.41
12	3-64	3-64	243	.31	8	3-64	3-64	316	.36	4	1-16	3-64	476	.45

SINGLE CONDUCTOR—STRANDED

14	3-64	3-64	228	.31	0	5-64	1-16	1055	.69	700,000	7-64	3-32	4472	1.39
12	3-64	3-64	253	.33	00	5-64	1-16	1202	.73	750,000	7-64	3-32	4717	1.42
10	3-64	3-64	288	.35	000	5-64	1-16	1372	.78	800,000	7-64	3-32	4912	1.44
8	3-64	3-64	335	.38	0,000	5-64	5-64	1783	.86	900,000	7-64	3-32	5340	1.53
6	1-16	3-64	410	.43	250,000	3-32	5-64	2100	.98	1,000,000	7-64	3-32	5752	1.59
4	1-16	3-64	507	.48	300,000	3-32	5-64	2303	1.00	1,250,000	1-8	7-64	7300	1.75
2	1-16	1-16	770	.57	400,000	3-32	5-64	2753	1.10	1,500,000	1-8	1-8	8754	1.94
1	5-64	1-16	935	.65	500,000	3-32	5-64	3202	1.19	2,000,000	1-8	1-8	10821	2.16
					600,000	7-64	5-64	3725	1.30					

Weights are per 1000 feet.

The weights and diameters are approximate. The price and weight of a Duplex (flat twin) cable is approximately twice that of a single conductor cable.

Duplex cables larger than 4/0 are very difficult to handle; therefore, for two-conductor cables larger than this size, either the two conductors stranded together to make round or the concentric form is recommended.

TELEPHONE WIRES

Telephone Wire.—This term applies to a single conductor, or two, three or four conductors, in sizes not larger than No. 14 B.&S., twisted together for telephone use.

Telephone Cables.—Are two or more twisted pairs, or more than four single conductors stranded together.

Stranded Conductors.—These will be furnished if desired.

Braid.—The conductors may be finished with a braid filled with weatherproof compound, or a black or oak colored glazed braid with a colored marking thread to distinguish the conductor.

TWISTED PAIRS

Size	Dia. Over Insulation in Ins.	LBS. PER 1000 FT.		Size	Dia. Over Insulation in Ins.	LBS. PER 1000 FT.		Size	Dia. Over Insulation in Ins.	LBS. PER 1000 FT.	
		Plain	Braided			Plain	Braided			Plain	Braided
14	11/64	59	72	16	4/32	33	40	19	7/64	22	28
14	5/32	52	65	18	4/32	28	35	19	3/32	18	23
16	5/32	45	57	18	7/64	24	30	20	3/32	17	22
16	9/64	39	50								

WIRES AND CABLES

RUBBER INSULATED (Continued)

CABLES FOR AUTOMOBILE CHARGING

Automobile or Twin Charging Cables are extra flexible with N.E.C. Standard rubber insulation, finished with a braid on each conductor and two braids over all.

Size	Cap. in Amp.	Stranding	Dimensions in Ins.	Wt. 1000 Ft. in Lb.	Size	Cap. in Amp.	Stranding	Dimensions in Ins.	Wt. 1000 Ft. in Lb.
8	25	49/25	.73 x .43	229	1	100	49/18	1.4 x .79	918
5	50	49/22	.90 x .51	374	0	125	61/18	1.4 x .79	1230
4	65	49/21	1.00 x .56	495					

Prices on application.

CORDS AND CABLES

BREWERY CORD—TWO CONDUCTORS

Extra flexible conductor, separator, 1-32 inch insulation, weatherproofed braid on each and two conductors twisted together.

CANVASITE CORD—TWO CONDUCTORS

Same as Brewery Cord, with the exception that there is a weatherproof braid over all.

PACKING HOUSE CORD—TWO CONDUCTORS

Extra flexible conductor, separator, 1-32 inch insulation, braid on each, conductors twisted together with jute filler, two weatherproof braids over all.

THEATER OR STAGE CABLE—TWO CONDUCTORS

Extra flexible conductor, separator, National Code insulation, braided, conductors twisted together with jute filler, finished with two weatherproof braids over all.

BORDER LIGHT CABLE—MORE THAN TWO CONDUCTORS

Same as Stage or Theater Cable, but consists of more than two conductors.

DECK CABLE—TWO CONDUCTORS

Extra flexible conductor, 1-32 inch insulation, braided, two conductors twisted together with jute filler and finished with 1-32 inch rubber over all, weatherproof braid.

Prices of all of the above on application.

DYNAMO OR BRUSH-HOLDER CABLE

This type of cable is especially adapted for brush-holder leads, or to any use where great flexibility is required, and where the pressure does not exceed 750 volts.

Finish.—Glazed braid, or cotton braid with weatherproof compound.

Cables can be furnished with the same strand for higher voltages. When ordering for special voltages, state working or test pressure, or thickness of rubber desired.

Number of No. 25 B.&S. Wires in Strand	Nearest Equivalent Standard Size	Actual Circular Mils	DIMENSIONS IN INS.			Number of No. 25 B.&S. Wires in Strand	Nearest Equivalent Standard Size	Actual Circular Mils	DIMENSIONS IN INS.		
			Dia. Bare	Thickness of Rubber	Dia. Overall				Dia. Bare	Thickness of Rubber	Dia. Over all
25	11	8,000	.108	.047	.275	650	0000	208,000	.570	.065	.900
50	8	16,000	.150	.047	.320	700	225,000	224,000	.600	.093	.930
75	6	24,000	.205	.047	.375	750	250,000	240,000	.620	.093	1.005
100	5	32,000	.235	.047	.450	800	250,000	256,000	.640	.093	1.025
150	3	48,000	.285	.065	.535	900	300,000	288,000	.670	.093	1.055
200	2	64,000	.315	.065	.565	1000	300,000	320,000	.690	.093	1.075
250	1	80,000	.360	.065	.615	1250	400,000	400,000	.820	.093	1.205
300	0	96,000	.385	.065	.665	1500	500,000	480,000	.870	.093	1.255
350	0	112,000	.400	.065	.680	1750	550,000	560,000	.950	.093	1.350
400	00	128,000	.430	.065	.710	2000	650,000	640,000	1.000	.093	1.400
450	00	144,000	.485	.065	.765	2250	700,000	720,000	1.050	.093	1.450
500	000	160,000	.490	.065	.790	2500	800,000	800,000	1.150	.093	1.550
550	000	176,000	.510	.065	.810	2750	900,000	880,000	1.200	.093	1.600
600	0000	192,000	.550	.065	.850	3125	1,000,000	1,000,000	1.300	.093	1.700

Dynamo cable with glazed braid finish for 750 volts and less, carried in stock.
Prices on application.

WIRES AND CABLES**RUBBER INSULATED (Continued)****WIRE AND CABLE FOR CAR WIRING****SINGLE CONDUCTOR, WEATHERPROOF FINISH**

This class of cable is made with separator, standard code thickness of insulation, and single-braid weather-proof finish. Any number of extra braids may be furnished at additional prices as per list given below.

STANDARD STRANDS

Size	Stranding	Fin. Wt. in Lb. per M ft.	Dia. Ins.	List Price	Size	Stranding	Fin. Wt. in Lb. per M ft.	Dia. Ins.	List Price
6	7/.0613	139	.38	Prices on application	4/0	19/.1056	835	.78	Prices on application
4	7/.0773	197	.42		250,000	31/.0823	1032	.87	
2	7/.0974	289	.51		300,000	37/.0906	1218	.93	
1	19/.0664	381	.59		350,000	37/.0974	1381	.98	
1/0	19/.0746	464	.63		500,000	61/.0906	1888	1.11	
2/0	19/.0838	563	.67		750,000	61/.1110	2791	1.33	
3/0	19/.0940	683	.72						

EXTRA FLEXIBLE STRANDS

8	49/24	105	.35	Prices on application	1	250/25	368	.59	Prices on application
6	49/23	139	.40		....	300/25	427	.63
5	49/22	166	.42		1/0	350/25	483	.65	
3	49/21	198	.45		2/0	400/25	543	.68	
6	75/25	132	.36		....	450/25	601	.72
5	100/25	191	.39		3/0	500/25	659	.74	
4	150/25	232	.48		....	550/25	714	.76
2	200/25	289	.52						

For each additional braid, add approximately 1/16 in. to diameter.

SINGLE CONDUCTOR, FLAMEPROOF FINISH, NATIONAL ELECTRIC CODE STANDARD

This class of cable is made with separator, standard code thickness of insulation, and double braid finish—the first braid is cotton, well compounded, the second or finishing braid is filled asbestos.

STANDARD STRANDS

Size	Stranding	Fin. Wt. in Lb. per M ft.	Dia. in Ins.	List Price	Size	Stranding	Fin. Wt. in Lb. per M ft.	Dia. in Ins.	List Price
6	7/.0613	189	.47	Prices on application	4/0	19/.1056	937	.88	Prices on application
4	7/.0773	255	.52		250,000	37/.0823	1138	.99	
2	7/.0974	353	.58		300,000	37/.0906	1330	1.05	
1	19/.0664	461	.68		350,000	37/.0974	1497	1.10	
1/0	19/.0746	545	.72		500,000	61/.0906	2024	1.23	
2/0	19/.0838	650	.77		750,000	61/.1110	2945	1.45	
3/0	19/.0940	778	.82						

EXTRA FLEXIBLE STRANDS

8	49/24	154	.44	Prices on application	1	250/25	450	.68	Prices on application
6	4/23	194	.49		....	300/25	514	.72
5	49/22	225	.52		1/0	350/25	572	.74	
3	49/21	261	.54		2/0	400/25	636	.77	
6	75/25	185	.46		....	450/25	700	.81
5	100/25	248	.49		3/0	500/25	761	.83	
4	150/25	298	.57		....	550/25	821	.85
2	200/25	360	.61						

WIRES AND CABLES
RUBBER INSULATED (Continued)
CABLE FOR RAILWAY MOTOR LEADS
WEATHERPROOF AND FLAMEPROOF FINISHES
LEADS FOR STANDARD GE MOTORS

Type Motor	Volts	No. of Wires	Size of Wire B.&S.	Circular Mils	DIMENSIONS IN INS.		LIST PRICE PER 1000 FT.		Type Motor	Volts	No. of Wires	Size of Wire B.&S.	Circular Mils	DIMENSIONS IN INS.		LIST PRICES PER 1000 FT.	
					Over all Dia.	Dia. Bare	Weather-proof	Flame-proof						Over all Dia.	Dia. Bare	Weather-proof	Flame-proof
GE-51	500	200	25	64,000		.325			GE-77	500	49	23	25,000		.200		
" 51	250	350	25	112,000		.425			" 77	250	150	25	48,000		.285		
" 52	500	49	23	25,000		.200			" 78	500	49	22	31,500		.228		
" 52	250	150	25	48,000		.285			" 79	250	150	25	48,000		.285		
" 53	500	150	25	48,000		.285			" 79	500	49	23	25,000		.200		
" 53	250	250	25	80,000		.350			" 80	500	49	22	31,500		.228		
" 54	500	49	23	25,000		.200			" 87	500	150	25	48,000		.285		
" 54	250	150	25	48,000		.285			" 81	500	49	23	25,000		.200		
" 55	500	350	25	112,000		.425			" 82	750	49	22	31,500		.228		
" 55	250	650	25	176,000		.530			" 90	500	49	22	31,500		.228		
" 57	500	150	25	48,000		.285			" 95	500	50	25	16,000		.15		
" 57	250	250	25	80,000		.350			" 95	250	50	25	16,000		.15		
" 58	500	49	22	31,500		.228			" 96	500	50	25	16,000		.15		
" 58	250	200	25	64,000		.325			" 96	250	50	25	16,000		.15		
" 59	500	49	22	31,500		.228			" 97	500	150	25	48,000		.285		
" 59	250	200	25	64,000		.325			" 97	250	350	25	112,000		.425		
" 60	500	49	23	25,000		.200			" 202	600	49	22	31,500		.228		
" 60	250	150	25	48,000		.285			" 204	600	150	25	48,000		.285		
" 61	500	350	25	112,000		.425			" 205	1200	350	25	112,000		.425		
" 61	250	550	25	176,000		.530			" 205	600	350	25	112,000		.425		
" 62	500	49	23	25,000		.200			" 207	1200	350	25	112,000		.425		
" 62	250	150	25	48,000		.285			" 207	600	350	25	112,000		.425		
" 64	500	200	25	64,000		.325			" 209	600	750	25	240,000		.62		
" 65	500	550	25	176,000		.530			" 210	600	150	25	48,000		.285		
" 66	500	350	25	112,000		.425			" 211	600	350	25	112,000		.425		
" 67	500	49	22	31,500		.228			" 212	600	550	25	176,000		.530		
" 67	250	200	25	64,000		.325			" 213	600	49	22	31,500		.228		
" 68	500	550	25	25,000		.530			" 216	600	49	22	31,500		.228		
" 69	500	550	25	176,000		.530			" 217	1200	150	25	48,000		.285		
" 70	500	49	22	31,500		.228			" 217	600	150	25	48,000		.285		
" 71	500	200	25	64,000		.325			" 800	125	300	25	96,000		.385		
" 71	250	550	25	176,000		.530			" 800	500	75	25	24,000		.205		
" 72	140	550	25	176,000		.530			" 800	500	49	22	31,500		.228		
" 73	500	200	25	64,000		.325			" 800	250	150	25	48,000		.285		
" 74	500	200	25	64,000		.325			" 1000	500	49	22	31,500		.228		
" 75	500	49	22	31,500		.228			" 1000	250	200	25	64,000		.325		
" 76	500	350	25	112,000		.425											

CABLE FOR TYPE M CONTROL

19/25 B.&S. single conductor. Double braid weatherproof finish. Nearest equivalent size is number 12 B.&S., used for connecting contactors and controllers.

The weight per 1000 ft. is 52 lbs., and diameter .25 in.

TRAIN CABLES

Are multiple conductors, each single conductor being composed of 19/25 B.&S. wires, rubber covered, single braid and a tape and braid finish over all.

No. of Conductors	Diam. Over all	Wt. Per 1000 Ft.	List Price Per 1000 Ft.	No. of Conductors	Diam. Over all	Wt. Per 1000 Ft.	List Price Per 1000 Ft.
5	.7	255		10	.93	503	
6	.750	343	Prices on Application	12	1.03	613	
7	.750	373		20	1.28	893	
9	.85	479					Prices on Application

JUMPER CABLES

Are similar in construction to train cables with the exception that the group of conductors is surrounded by a rubber jacket and a double braid finish.

This cable is very flexible and is designed to withstand, with a minimum amount of wear, the constant swinging that cables used for connecting cars are subjected to.

WIRES AND CABLES

RUBBER INSULATED (Continued)

JUMPER CABLES (Concluded)

No. of Conductors	Diam. Over all	Wt. Per 1000 Ft.	List Price Per 1000 Ft.	No. of Conductors	Diam. Over all	Wt. Per 1000 Ft.	List Price Per 1000 Ft.
5	.88	371	Prices on Application	10	1.07	687	Prices on Application
6	.94	461		12	1.30	846	
7	.94	491		20	1.54	1246	
9	1.00	632					

CONTROLLER CABLE OR MADE UP CABLE FOR CAR WIRING



This class of cable is made up complete for car wiring and embraces the controller and motor circuits; two cables comprise a set,—with the exception of the cable for R-17 controllers, which is a single-motor equipment,—and the prices are per set-foot, the length of one cable being taken as a basis.

The outside finish of this cable may be either weatherproof compound over a cotton braid, or flameproof paint over an asbestos braid; this latter style meets underwriters' requirements.

Cables are designed for use with the following controllers and 500 volt motors:—

CONTROLLER		GE Motor No.	LIST PRICE PER SET-FOOT		CONTROLLER	GE Motor No.	LIST PRICE PER SET-FOOT	
No.	Capacity		Weather-proof	Flame-proof			Weather-proof	Flame-proof
K-2	2-40-h.p. motors	800 or 1000	Prices on Application	Prices on Application	K-34	4-75-h.p. motors	Prices on Application	Prices on Application
K-6	4-40-h.p. motors or 2-80 h.p.	58, 67, 70, 80 or 1000 73 or 74			K-35	4-50-h.p. motors		
K-10	2-40-h.p. motors	52, 54, 58, 60, 67 70, 80 or 1000			K-36	2-60-h.p. motors		
K-11	2-60-h.p. motors	53, 57, 87 or 90			L-4	4-100-h.p. motors		
K-12	4-30-h.p. motors	52, 54, 58, 60, 81 or 800			B-13	2-40-h.p. motors		
K-14	4-60-h.p. motors	53, 57, 87 or 90			B-18	2-40-h.p. motors		
K-28	4-40-h.p. motors or 2-80 h.p.	58, 67, 70 or 1000 73 or 74			R-17	1-50-h.p. motor		

The controllers with which these cables are used can also be operated with the same number of motors with one-half the horse-power and voltage rating. The prices of the cables will be the same.

STANDARD LAMP CORD

TWO BRAIDED CONDUCTORS TWISTED TOGETHER

Size B.&S.	NEW CODE— $\frac{3}{32}$ IN.				OLD CODE— $\frac{1}{16}$ IN.			
	Wt. Per 1000 Ft.		List Price Per 1000 Ft.		Wt. Per 1000 Ft.		List Price Per 1000 Ft.	
	Cotton	Silk	Cotton	Silk	Cotton	Silk	Cotton	Silk
18	28.7	25.9	Prices on Application	Prices on Application	19.0	17.3	Prices on Application	Prices on Application
16	37.1	34.2			26.1	24.4		
14	53.4	49.3			38.9	37.0		
12	74.0	68.7			54.2	52.3		

WIRES AND CABLES

RUBBER INSULATED (Continued)

PARALLEL CORD OR NEW YORK PORTABLE

TWO BRAIDED CONDUCTORS LAID FLAT AND A BRAID OVER ALL

Size B.&S.	NEW CODE— $\frac{1}{32}$ IN.				Size B.&S.	OLD CODE— $\frac{1}{16}$ IN.			
	Wt. Per 1000 Ft.		List Price Per 1000 Ft.			Wt. Per 1000 Ft.		List Price Per 1000 Ft.	
	Cotton	Silk	Cotton	Silk		Cotton	Silk	Cotton	Silk
18	27.3	24.6	Prices on	Prices on	14	50.9	47.0	Prices on	Prices on
16	35.3	32.5	Application	Application	12	70.4	65.4	Application	Application

Parallel cord may be used for portables in offices and houses where appearance is to be considered and where the braid is not subject to abrasion.

FLAMEPROOF OR GRAY PAINTED CORD

TWO BRAIDED CONDUCTORS TWISTED TOGETHER WITH A BRAID OVER ALL—BOTH BRAIDS SOAKED IN FLAMEPROOF PAINT

Size B.&S.	NEW CODE— $\frac{1}{32}$ IN. RUBBER INSULATION		Size B.&S.	NEW CODE— $\frac{1}{16}$ IN. RUBBER INSULATION	
	Wt. in Lb. Per 1000 Ft.	List Price Per 1000 Ft.		Wt. in Lb. Per 1000 Ft.	List Price Per 1000 Ft.
18	52.2	Prices on	14	84.4	Prices on
16	64.3	Application	12	101.0	Application

REINFORCED OR SHOW WINDOW CORD

Standard lamp cord with an outer jacket of rubber and a braid over all.

Size B.&S.	NEW CODE— $\frac{1}{32}$ IN. INSULATION				OLD CODE— $\frac{1}{16}$ IN. INSULATION			
	Wt. in Lb. Per 1000 Ft.		List Price Per 1000 Ft.		Wt. in Lb. Per 1000 Ft.		List Price Per 1000 Ft.	
	Cotton	Silk	Cotton	Silk	Cotton	Silk	Cotton	Silk
18	58.7	55.6	Prices	Prices	38.8	36.1	Prices	Prices
16	74.3	70.8	on	on	49.6	46.5	on	on
14	96.7	92.7	Application	Application	69.2	65.3	Application	Application
12	127.0	122.0			89.7	85.8		

Old code reinforced cord may also be used in places where the appearance is important and where the cord is not liable to injury. Reinforced cord with cotton braid will be supplied with weather-proofed or glazed thread braid as ordered.

HEATER CORD

TWO CONDUCTOR

This is a braided copper conductor, with a thin layer of rubber, with an asbestos jacket and a braid. This braid to meet underwriters' requirements must be of glazed cotton but silk can be furnished if desired.

Size B.&S.	WT. PER 1000 FT.		LIST PRICE PER 1000 FT.		Size B.&S.	WT. PER 1000 FT.		LIST PRICE PER 1000 FT.	
	Cotton	Silk	Cotton	Silk		Cotton	Silk	Cotton	Silk
12	82.2	82.2	Prices on	Prices on	16	47.4	47.4	Prices on	Prices on
14	56.7	56.7	Application	Application	18	38.2	38.2	Application	Application

The price of three-conductor cord is $1\frac{1}{2}$ times that of two-conductor.
The standard finish for standard, parallel and reinforced cord is green and yellow. Heater cord, red and black. Black, white, red, green and yellow or any combination can be supplied.
All cord shipped in 500 or 250 foot coils.

WIRES AND CABLES

RUBBER INSULATED (Continued)

SINGLE CONDUCTOR, BRAIDED OR LEADED, RED CORE, TRICOAT, OR 30% PARA INSULATION

1/16 IN. RUBBER

SOLID

Size B.&S.	LIST PRICE PER 1000 FT. SINGLE BRAID			Dia. Single Braid, Ins.	WT. PER 100 FT. IN LB.		LIST PRICE PER 1000 FT. LEADED			Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thickness of Lead, Ins.
	Red Core	Tricoat	30%		Single Braid	Double Braid	Red Core	Tricoat	30%			
16	Prices on Application			.221	33	48	Prices on Application			233	.315	$\frac{3}{64}$
14				.234	40	56				249	.328	$\frac{3}{64}$
12				.251	51	67				273	.345	$\frac{3}{64}$
10				.272	67	85				305	.366	$\frac{3}{64}$
8				.299	91	109				348	.393	$\frac{3}{64}$

STRANDED

16	Prices on Application			.227	39	56	Prices on Application			242	.326	$\frac{3}{64}$
14				.243	43	61				260	.337	$\frac{3}{64}$
12				.262	60	80				285	.356	$\frac{3}{64}$
10				.286	78	99				316	.380	$\frac{3}{64}$
8				.316	105	127				360	.395	$\frac{3}{64}$

NOTE.—Add $\frac{1}{16}$ in. to single braid for diameter of each additional braid.
For test and working voltages see pages 332 and 333.

3/32 IN. RUBBER

SOLID

Size	List Price	Dia. Single Braid Ins.	WT. PER 1000 FT. IN LB.		List Price	Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thick- ness of Lead Ins.	Size	List Price	Dia. Single Braid Ins.	WT. PER 1000 FT. IN LB.		List Price	Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thick- ness of Lead Ins.
			Single Braid	Double Braid								Single Braid	Double Braid				
14 B.&S.	Prices on Application	.296	61	80	293	.376	$\frac{3}{64}$	$\frac{3}{64}$	3 B.&S.	Prices on Application	.481	253	280	Prices on Application	603	.572	$\frac{1}{16}$
12 B.&S.		.313	73	93	318	.393	$\frac{3}{64}$	$\frac{3}{64}$	2 B.&S.		.540	313	340		674	.601	$\frac{1}{16}$
10 B.&S.		.354	90	111	351	.414	$\frac{3}{64}$	$\frac{3}{64}$	1 B.&S.		.571	374	402		913	.632	$\frac{1}{16}$
8 B.&S.		.381	115	138	395	.441	$\frac{3}{64}$	$\frac{3}{64}$	0 B.&S.		.607	449	478		1025	.667	$\frac{1}{16}$
6 B.&S.		.414	153	177	457	.474	$\frac{3}{64}$	$\frac{3}{64}$	00 B.&S.		.647	543	574		1160	.707	$\frac{1}{16}$
5 B.&S.		.434	181	205	498	.494	$\frac{3}{64}$	$\frac{3}{64}$	000 B.&S.		.692	661	694		1323	.783	$\frac{1}{16}$
4 B.&S.		.456	211	236	545	.516	$\frac{3}{64}$	$\frac{3}{64}$	0000 B.&S.		.742	806	841		1519	.833	$\frac{3}{64}$

STRANDED

14 B.&S.	Prices on Application	.305	69	91	304	.385	$\frac{3}{64}$	$\frac{3}{64}$	1 B.&S.	Prices on Application	.618	409	438	Prices on Application	996	.678	$\frac{1}{16}$
12 B.&S.		.324	83	105	332	.403	$\frac{3}{64}$	$\frac{3}{64}$	100000 C.M.		.647	467	498		1084	.707	$\frac{1}{16}$
10 B.&S.		.368	103	126	367	.427	$\frac{3}{64}$	$\frac{3}{64}$	0 B.&S.		.657	485	515		1108	.717	$\frac{1}{16}$
8 B.&S.		.398	131	155	416	.457	$\frac{3}{64}$	$\frac{3}{64}$	125000 C.M.		.687	562	566		1182	.747	$\frac{1}{16}$
6 B.&S.		.436	176	201	485	.495	$\frac{3}{64}$	$\frac{3}{64}$	00 B.&S.		.701	585	618		1255	.761	$\frac{1}{16}$
5 B.&S.		.458	203	229	528	.518	$\frac{3}{64}$	$\frac{3}{64}$	150000 C.M.		.721	638	672		1329	.812	$\frac{3}{64}$
4 B.&S.		.484	239	266	583	.523	$\frac{3}{64}$	$\frac{3}{64}$	000 B.&S.		.752	709	743		1430	.843	$\frac{3}{64}$
3 B.&S.		.542	285	313	647	.600	$\frac{1}{16}$	$\frac{1}{16}$	200000 C.M.		.794	826	861		1590	.885	$\frac{3}{64}$
2 B.&S.		.574	336	365	878	.634	$\frac{1}{16}$	$\frac{1}{16}$	0000 B.&S.		.810	864	900		1643	.901	$\frac{3}{64}$

NOTE.—Add $\frac{1}{16}$ in. to single braid for diameter of each additional braid.
For test and working pressure see pages 332 and 333.

4/32 IN. RUBBER

SOLID

Size	List Price	Dia. Single Braid Ins.	WT. PER 1000 FT. IN LB.		List Price	Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thick- ness of Lead Ins.	Size	List Price	Dia. Single Braid Ins.	WT. PER 1000 FT. IN LB.		List Price	Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thick- ness of Lead Ins.
			Single Braid	Double Braid								Single Braid	Double Braid				
14 B.&S.	Prices on Application	.379	84	106	372	.438	$\frac{3}{64}$	$\frac{3}{64}$	3 B.&S.	Prices on Application	.572	300	329	Prices on Application	852	.633	$\frac{1}{16}$
12 B.&S.		.396	98	121	398	.455	$\frac{3}{64}$	$\frac{3}{64}$	2 B.&S.		.603	351	380		933	.663	$\frac{1}{16}$
10 B.&S.		.417	117	141	432	.476	$\frac{3}{64}$	$\frac{3}{64}$	1 B.&S.		.634	414	445		1028	.694	$\frac{1}{16}$
8 B.&S.		.444	144	169	479	.503	$\frac{3}{64}$	$\frac{3}{64}$	0 B.&S.		.670	493	525		1142	.761	$\frac{3}{64}$
6 B.&S.		.477	186	213	547	.536	$\frac{3}{64}$	$\frac{3}{64}$	00 B.&S.		.710	591	625		1282	.833	$\frac{3}{64}$
5 B.&S.		.527	224	252	583	.556	$\frac{3}{64}$	$\frac{3}{64}$	000 B.&S.		.755	712	746		1450	.878	$\frac{3}{64}$
4 B.&S.		.549	259	287	635	.609	$\frac{1}{16}$	$\frac{1}{16}$	0000 B.&S.		.805	859	895		1649	.927	$\frac{3}{64}$

WIRES AND CABLES

RUBBER INSULATED (Concluded)

SINGLE CONDUCTOR, BRAIDED OR LEADED—4/32 IN. RUBBER—RED CORE, TRICOAT OR 30% PARA INSULATION

STRANDED

Size	List Price	Dia. Single Braid Ins.	WT. PER 1000 FT. IN LB.		List Price	Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thick-ness of Lead Ins.	Size	List Price	Dia. Single Braid Ins.	WT. PER 1000 FT. IN LB.		List Price	Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thick-ness of Lead Ins.
			Single Braid	Double Braid								Single Braid	Double Braid				
14 B.&S.	Prices on Application	.388	89	113	Prices on Application	373	.447	$\frac{3}{32}$	000 B.&S.	Prices on Application	.815	760	796	Prices on Application	1545	.937	$\frac{3}{32}$
12 B.&S.		.407	103	127		401	.466	$\frac{1}{8}$	200000 C.M.		.872	914	977		1929	.979	$\frac{1}{8}$
10 B.&S.		.431	125	150		439	.490	$\frac{5}{32}$	0000 B.&S.		.888	953	1018		1987	.995	$\frac{5}{32}$
8 B.&S.		.461	156	182		491	.520	$\frac{3}{16}$	250000 C.M.		.955	1084	1149		2178	1.062	$\frac{3}{16}$
6 B.&S.		.529	210	237		563	.558	$\frac{1}{4}$	300000 C.M.		.994	1278	1346		2444	1.101	$\frac{1}{4}$
5 B.&S.		.551	240	268		608	.580	$\frac{5}{16}$	350000 C.M.		1.042	1445	1514		2672	1.149	$\frac{5}{16}$
4 B.&S.		.577	277	306		821	.636	$\frac{3}{8}$	400000 C.M.		1.088	1617	1686		2901	1.195	$\frac{3}{8}$
3 B.&S.		.605	322	351		895	.665	$\frac{1}{2}$	500000 C.M.		1.175	1958	2034		3350	1.282	$\frac{1}{2}$
2 B.&S.		.637	376	407		981	.697	$\frac{5}{8}$	600000 C.M.		1.253	2308	2391		3790	1.360	$\frac{5}{8}$
1 B.&S.		.681	454	486		1104	.741	$\frac{3}{4}$	700000 C.M.		1.325	2657	2747		4222	1.432	$\frac{3}{4}$
100000 C.M.		.710	514	547		1192	.801	$\frac{7}{8}$	750000 C.M.		1.359	2831	2923		4781	1.466	$\frac{7}{8}$
0 B.&S.		.720	530	564		1216	.811	$\frac{15}{16}$	800000 C.M.		1.391	3031	3126		5012	1.498	$\frac{15}{16}$
125000 C.M.		.750	582	616		1290	.841	$\frac{1}{8}$	900000 C.M.		1.454	3343	3438		5432	1.561	$\frac{1}{8}$
00 B.&S.		.764	635	669		1364	.855	$\frac{1}{4}$	1000000 C.M.		1.513	3675	3773		5852	1.620	$\frac{1}{4}$
150000 C.M.		.784	689	723		1443	.875	$\frac{3}{8}$									

NOTE—Add $\frac{1}{16}$ in. to single braid for diameter of each additional braid.
For test and working pressures see pages 332 and 333.

6/32 IN. RUBBER SOLID

Size	List Price	Dia. Single Braid Ins.	WT. PER 1000 FT. IN LB.		List Price	Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thick-ness of Lead Ins.	Size	List Price	Dia. Single Braid Ins.	WT. PER 1000 FT. IN LB.		List Price	Wt. Per 1000 Ft. Leaded Lb.	Dia. Leaded Ins.	Thick-ness of Lead Ins.
			Single Braid	Double Braid								Single Braid	Double Braid				
14 B.&S.	Prices on Application	.534	156	184	Prices on Application	512	.562	$\frac{3}{32}$	3 B.&S.	Prices on Application	.699	386	419	Prices on Application	1053	.759	$\frac{1}{16}$
12 B.&S.		.551	173	201		540	.580	$\frac{1}{8}$	2 B.&S.		.728	441	474		1137	.788	$\frac{1}{8}$
10 B.&S.		.572	196	224		735	.601	$\frac{5}{32}$	1 B.&S.		.759	509	543		1235	.850	$\frac{5}{32}$
8 B.&S.		.598	226	255		792	.658	$\frac{3}{16}$	0 B.&S.		.795	592	638		1356	.886	$\frac{3}{16}$
6 B.&S.		.632	272	303		872	.692	$\frac{1}{4}$	00 B.&S.		.850	696	732		1708	.957	$\frac{1}{4}$
5 B.&S.		.652	302	333		924	.712	$\frac{5}{16}$	000 B.&S.		.895	851	926		1898	1.002	$\frac{5}{16}$
4 B.&S.		.674	340	372		982	.734	$\frac{3}{8}$	0000 B.&S.		.945	1011	1084		2109	1.052	$\frac{3}{8}$

STRANDED

14 B.&S.	Prices on Application	.543	162	190	Prices on Application	524	.572	$\frac{3}{32}$	000 B.&S.	Prices on Application	.955	915	981	Prices on Application	2032	1.031	$\frac{3}{32}$
12 B.&S.		.562	181	209		566	.591	$\frac{1}{8}$	200000 C.M.		.997	1042	1110		2212	1.073	$\frac{1}{8}$
10 B.&S.		.586	205	233		758	.646	$\frac{5}{32}$	0000 B.&S.		1.013	1083	1151		2271	1.089	$\frac{5}{32}$
8 B.&S.		.616	239	268		822	.676	$\frac{3}{16}$	250000 C.M.		1.060	1225	1294		2473	1.136	$\frac{3}{16}$
6 B.&S.		.654	290	320		912	.714	$\frac{1}{4}$	300000 C.M.		1.119	1424	1494		2745	1.195	$\frac{1}{4}$
5 B.&S.		.676	323	354		968	.736	$\frac{5}{16}$	350000 C.M.		1.167	1600	1675		2980	1.243	$\frac{5}{16}$
4 B.&S.		.702	365	397		1034	.762	$\frac{3}{8}$	400000 C.M.		1.213	1781	1860		3218	1.289	$\frac{3}{8}$
3 B.&S.		.730	413	447		1112	.790	$\frac{1}{2}$	500000 C.M.		1.300	2138	2226		3679	1.376	$\frac{1}{2}$
2 B.&S.		.762	472	506		1201	.822	$\frac{5}{8}$	600000 C.M.		1.378	2497	2589		4474	1.485	$\frac{5}{8}$
1 B.&S.		.806	555	591		1332	.897	$\frac{3}{4}$	700000 C.M.		1.450	2854	2950		4938	1.557	$\frac{3}{4}$
100000 C.M.		.850	619	656		1638	.957	$\frac{7}{8}$	750000 C.M.		1.484	3030	3127		5161	1.591	$\frac{7}{8}$
0 B.&S.		.860	637	675		1666	.960	$\frac{15}{16}$	800000 C.M.		1.516	3205	3304		5384	1.654	$\frac{15}{16}$
125000 C.M.		.890	708	759		1750	.966	$\frac{1}{8}$	900000 C.M.		1.579	3557	3658		5829	1.718	$\frac{1}{8}$
00 B.&S.		.904	780	844		1834	.980	$\frac{1}{4}$	1000000 C.M.		1.638	3900	4004		7085	1.808	$\frac{1}{4}$
150000 C.M.		.924	838	903		1917	1.000	$\frac{3}{8}$									

NOTE—Add $\frac{1}{16}$ in. to single braid for diameter of each additional braid.

BRAIDED AND LEADED, MULTIPLE CONDUCTOR

General specifications and prices covering two, three or more conductors, rubber insulated wires and cables will be furnished on application.

In requesting specifications or prices, customer will please state either the thickness of insulation or the voltage of the circuit and the quality of the rubber compound, either Red Core, Tricoat or 30% para, bearing in mind that we do not recommend Red Core for voltages above 7000 volts working pressure. Also give finish whether braided or leaded or any special finish.

WIRES AND CABLES

VARNISHED CAMBRIC CABLES

Varnished Cambric Cable was first placed on the market in 1902 by the General Electric Company. Its success was immediate and initial installations have been followed by a widely extended application wherever moisture-proof cable insulation of great dielectric strength is required.

DETAILS OF MANUFACTURE

A separator of treated paper, cloth or rubber is applied to the copper core to prevent any possible action of the varnished cambric film on the copper, and over the separator are taped strips of fabric which have been multiple coated with special insulating varnish. A single thickness of this coated material requires from seven to twelve thousand volts to puncture it in five seconds, depending upon the number of films or coats which have been applied to the cloth. Between the tapings a thin layer of plastic, non-hardening, insulating compound is applied. While this compound prevents the varnished cambric tape from unwrapping when the cable is cut, it permits the adjoining layers of varnished cambric to slide upon each other and so the insulation remains concentric when the cable is bent. This filling compound prevents the capillary absorption of moisture between the tapings, seals any possible flaw in films, and prevents air spaces.

It is well to note that the special varnish used in treating the cloth, and the insulating compound which is applied between the layers, are both manufactured by the General Electric Company—thus insuring a uniform product.

After the application of a number of tapings sufficient to secure the required thickness of insulation, the core is finished by cotton braiding and weatherproofing, or asbestos braiding and flameproofing. This latter form is used particularly in station wiring and is a very successful flameproof finish. If a lead covering is desired, the insulated core is taped and then finished with a lead sheath. Exterior finishes of any kind in use may be applied over the lead, as in the case of either leaded-paper or rubber-insulated cables.



Four-Conductor
Cable for
Medium and Low
Tension Two-phase
Systems

TESTS

All finished cables are tested at two and one-half times the working pressure. The braided cores are immersed in water and the test voltage is applied between the water and the conductor of the cable.

The puncture or break-down tests made on long lengths are fully equal to those made on shorter sections. Air pockets, such as are occasionally found in rubber cables, especially those with heavy insulation, and imperfect or uneven saturation or distribution of compound, as in paper cables, are impossible. On cables for 10,000 volt service there is a minimum of 120 separate coats of varnish, forming 40 separate and distinct films. The existence of a fault through mechanical injury or through other cause in one film, would reduce the insulating effect of the wall by less than 3 per cent., even if the filling compound did not seal the flaw in the film.

The copper core cannot get out of place and reduce the thickness of the insulating wall, as is sometimes the case with rubber insulation. Insulation is no stronger than its thinnest point, hence 5-32 in. rubber cable with a core out of center 1-32 in. is in reality no better than a cable with 4-32 insulation with the core central the entire length. The layers of varnished cambric tape are slightly lapped and, therefore, there is no reduction in the thickness of the insulation on the outside of the cable when it is bent.

As previously stated, varnished cambric cables are tested in water. A hole in the lead sheath of a varnished cambric cable in underground service is not followed by a burn-out. Varnished cambric cable can be used in interior wiring for high or low tension without a lead sheath, and if used for underground service, requires only a light lead jacket, as does rubber. All the above conditions are impossible with paper-insulated cables.

FLEXIBILITY

The cloth used for varnished cambric cables has a reasonable amount of elasticity; paper has practically none. Varnished cambric cables can be bent to a radius equal to six times their own diameter without reducing their ability to stand up under the guaranteed test pressure. In bending, the thickness of the insulating wall is not reduced. In paper-insulated cables the bending limit is eight diameters.

DURABILITY

In soldering, cambric insulation is not easily injured by the heat, as is the case with rubber insulation.

Cables have been used on an 11,000 volt circuit, connected to a 16-mile transmission pole line since 1898. During these ten years they have withstood, without injury, lightning discharges, which have punctured all other cables (including rubber insulated) connected to the line, and show no signs of deterioration at the present time. In apparatus manufactured by the General Electric Company (generators, transformers, etc.), where the temperatures are higher and the varnished films more exposed to external influences than in a cable, the film insulation, after many years of service, remains as effective as when new.

Oil of the variety generally used in switches and in the lubrication of generators does not injure varnished cambric-covered cables. The cables can, therefore, be run directly into oil switches and oil-filled transformers, or can be used as leads to generators. Rubber cables when used in similar circumstances are ruined in a very short time.

HIGH TENSION CABLE

For high tension cable of small size, a composite insulation has been used with great success. The small conductor is first insulated with rubber, and the cambric is then applied to secure the insulating wall necessary for the required test. With this construction the rubber is protected from atmospheric action and its life is prolonged, while the cost of the cable is reduced.



Flat Twin Leaded
Jute and Asphalt
Cables for Single-
phase Work

WIRES AND CABLES

VARNISHED CAMBRIC CABLES

ADAPTABILITY

Varnished cambric cable can be used with better results in any situation where paper-insulated cable is suitable, and can be used to advantage in place of rubber insulation, except in submarine work and in sizes smaller than No. 6 B.&S. with light insulation. Varnished cambric is absolutely the best available cable insulation for high tension station wiring, as it can be installed without the metallic sheath and the end bells required for paper cable, while it stands heat, static discharges and overloads much better than the best grade of rubber insulation. Three-conductor cables with this type of insulation, and finished with braid over all, can frequently be used with great convenience and advantage in station work. In all classes of underground work, but especially where electrolysis is to be feared—rendering the use of paper cable inadvisable—lead-lined varnished cambric cable can be used. Varnished cambric insulation has all the advantages of rubber and paper insulation without having the disadvantage of either. On grade crossings for jumpers of third-rail electric systems, varnished cambric cable has the following much-needed qualities: It is capable of standing overloads, it does not absorb moisture, nor does it break down if the lead sheath is injured by electrolysis.

SIZES

This cable is manufactured in any size from No. 6 to 2,500,000 c.m., and for any working pressure up to 25,000 volts.

WORKING AND TEST VOLTAGES

Kilo-Volts Working Pressure	Sizes	Thickness Insulation	TEST IN KILO-VOLTS					
			At Factory			After Installation		
			5 min.	30 min.	60 min.	5 min.	30 min.	60 min.
1	6-2	1/16	2.5	2	1.6	2	1.6	1.3
1	1-0000	5/64	2.5	2	1.6	2	1.6	1.3
1	250,000-500,000	3/32	2.5	2	1.6	2	1.6	1.3
1	550,000-1,000,000	7/64	2.5	2	1.6	2	1.6	1.3
1	1,100,000-and over	4/32	2.5	2	1.6	2	1.6	1.3
2	6-0000	3/32	5	4	3.2	4	3.2	2.6
2	250,000-500,000	7/64	5	4	3.2	4	3.2	2.6
2	550,000-2,000,000	4/32	5	4	3.2	4	3.2	2.6
3	All Sizes	9/64	7.5	6	4.2	6	4.8	3.8
4	"	5/32	10	8	6.4	8	6.4	5.1
5	"	6/32	12.5	10	8	10	8	6.4
6	"	7/32	15	12	9.6	12	9.6	7.7
7	"	8/32	17.5	14	11.2	14	11.2	9
8	"	9/32	20	16	12.8	16	12.8	10.2
9	"	9/32	22.5	18	14.4	18	14.4	11.5
10	"	10/32	25	20	16	20	16	12.8
11	"	11/32	27.5	22	17.6	22	17.6	14.1
12	"	12/32	30	24	19.2	24	19.2	15.4
13	"	12/32	32.5	26	20.8	26	20.8	16.6
14	"	13/32	35	28	22.4	28	22.4	17.9
15	"	13/32	37.5	30	24	30	24	19.2
16	"	14/32	40	32	25.6	32	25.6	20.5
17	"	14/32	42.5	34	27.2	34	27.2	21.7
18	"	15/32	45	36	28.8	36	28.8	23.0
19	"	15/32	47.5	38	30.4	38	30.4	24.3
20	"	16/32	50	40	32	40	32	25.5
21	"	16/32	52.5	42	33.6	42	33.6	26.8
22	"	17/32	55	44	35.2	44	35.2	28.1
23	"	17/32	57	46	36.8	46	36.8	29.4
24	"	18/32	60	48	38.4	48	38.4	30.7
25	"	18/32	62.5	50	40	50	40	31.9

Above working voltages are based on all conductors of the circuit being insulated. For D.C. 600 volt railway single conductor, leaded cables, use 2000 volt class. For three-phase "Y" connected circuits with grounded neutral with three conductor cables, thickness of insulation of the outside jacket need only be 1/2 of that on conductors. Tests on such cable in proportion to thickness of insulation:—Example, 3-phase 12,000 volt circuit "Y," neutral grounded, insulation on each conductor 6/32 in. (total between conductors 12/32 in.), outer belt 3/32 in. (total 9/32 in.); test pressure at factory for 5 minutes between conductors 30,000 volts, each conductor to earth 22,500 volts. For mechanical reasons, thickness of insulation on individual conductors of 3-conductor cables 3000 volts and less is made somewhat greater than required by working pressure on some sizes.

WIRES AND CABLES

VARNISHED CAMBRIC CABLES (Continued)

SINGLE CONDUCTOR, STRANDED, LEADED AND SINGLE BRAIDED

FOR WORKING PRESSURES NOT EXCEEDING
1000 VOLTSFOR WORKING PRESSURES NOT EXCEEDING
2000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 100 FT.	
			Leaded	Br'd	Leaded	Braided
6	2/32	3/64	.40		386	151
4	2/32	3/64	.45		490	202
3	2/32	3/64	.48		543	241
2	2/32	2/32	.54		725	279
1	5/64	2/32	.61		880	362
0	5/64	2/32	.66		1015	448
00	5/64	2/32	.70		1120	534
000	5/64	2/32	.75		1301	642
0000	5/64	5/64	.84		1690	778
250,000	3/32	3/32	.95		2267	1034
300,000	3/32	3/32	1.01		2520	1220
350,000	3/32	3/32	1.06		2780	1409
400,000	3/32	3/32	1.11		2994	1556
450,000	3/32	3/32	1.15		3234	1725
500,000	3/32	3/32	1.19		3473	1893
550,000	7/64	3/32	1.26		3749	2102
600,000	7/64	3/32	1.30		3999	2281
650,000	7/64	3/32	1.34		4174	2421
700,000	7/64	3/32	1.37		4388	2562
750,000	7/64	3/32	1.41		4589	2731
800,000	7/64	3/32	1.44		4794	2901
850,000	7/64	3/32	1.47		5038	3073
900,000	7/64	3/32	1.50		5241	3245
950,000	7/64	3/32	1.53		5446	3415
1,000,000	7/64	3/32	1.56		5656	3589
1,250,000						
1,500,000						
1,750,000						
2,000,000						

See 2000 volt class

Single Conductor
CableFOR WORKING PRESSURES NOT EXCEEDING
3000 VOLTSFOR WORKING PRESSURES NOT EXCEEDING
5000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.	
			Leaded	Br'd	Leaded	Braided
6	9/64	3/64	.56		582	228
4	9/64	2/32	.64		838	301
3	9/64	2/32	.67		925	358
2	9/64	2/32	.70		1002	416
1	9/64	2/32	.74		1129	495
0	9/64	2/32	.78		1258	570
00	9/64	5/64	.86		1588	676
000	9/64	5/64	.91		1816	818
0000	9/64	3/32	1.00		2294	994
250,000	9/64	3/32	1.05		2495	1124
300,000	9/64	3/32	1.11		2757	1319
350,000	9/64	3/32	1.15		3019	1510
400,000	9/64	3/32	1.20		3219	1639
450,000	9/64	3/32	1.24		3466	1819
500,000	9/64	3/32	1.29		3678	1996
550,000	9/64	3/32	1.33		3932	2179
600,000	9/64	3/32	1.36		4145	2359
650,000	9/64	3/32	1.40		4359	2501
700,000	9/64	3/32	1.44		4532	2639
750,000	9/64	3/32	1.47		4776	2811
800,000	9/64	3/32	1.50		4982	2986
850,000	9/64	3/32	1.53		5187	3156
900,000	9/64	7/64	1.60		5772	3330
950,000	9/64	7/64	1.63		6030	3506
1,000,000	9/64	7/64	1.65		6247	3678
1,250,000	9/64	4/32	1.82		7717	4509
1,500,000	9/64	4/32	1.95		8802	5354
1,750,000	9/64	4/32	2.06		9904	6222
2,000,000	9/64	4/32	2.16		10944	7072

Flat Twin
Lead Cable
Especially Adapted
for Single-Phase
Circuit

Specifications, diameters and weights for solid conductor approximately same as above.
The weights and diameters are approximate. The price and weight of a duplex (flat twin) cable is approximately twice that of a single conductor cable.
Duplex cables larger than 4/0 are very difficult to handle; therefore, for two-conductor cables larger than this size, either the two conductors stranded together to make round or the concentric form is recommended.

WIRES AND CABLES

VARNISHED CAMBRIC CABLES (Continued)

SINGLE CONDUCTOR, STRANDED, LEADED AND SINGLE BRAIDED

FOR WORKING PRESSURES NOT EXCEEDING
7000 VOLTSFOR WORKING PRESSURES NOT EXCEEDING
10,000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.		Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.	
			Leaded	Br'd	Leaded	Braided				Leaded	Br'd	Leaded	Braided
6	8/32	2/32	.81	Approximately same as Leaded	1112	405	6	10/32	5/64	.97	Approximately same as Leaded	1583	523
4	8/32	5/64	.86		1467	497	4	10/32	5/64	1.02		1735	624
3	8/32	5/64	.92		1558	560	3	10/32	5/64	1.04		1832	687
2	8/32	5/64	.95		1653	622	2	10/32	5/64	1.08		1923	750
1	8/32	5/64	.99		1802	714	1	10/32	3/32	1.15		2360	851
0	8/32	3/32	1.06		2183	812	0	10/32	3/32	1.19		2472	930
00	8/32	3/32	1.11		2364	926	00	10/32	3/32	1.23		2683	1068
000	8/32	3/32	1.16		2594	1085	000	10/32	3/32	1.29		2915	1233
0000	8/32	3/32	1.22		2898	1283	0000	10/32	3/32	1.34		3227	1441
250,000	8/32	3/32	1.26		3044	1397	250,000	10/32	3/32	1.39		3380	1554
300,000	8/32	3/32	1.32		3363	1610	300,000	10/32	3/32	1.45		3705	1775
350,000	8/32	3/32	1.37		3642	1816	350,000	10/32	3/32	1.50		3985	1989
400,000	8/32	3/32	1.42		3889	1996	400,000	10/32	3/32	1.54		4182	2115
450,000	8/32	3/32	1.46		4093	2163	450,000	10/32	3/32	1.59		4415	2313
500,000	8/32	3/32	1.50		4327	2331	500,000	10/32	3/32	1.63		4688	2514
550,000	8/32	3/32	1.54		4592	2525	550,000	10/32	3/32	1.67		4953	2712
600,000	8/32	3/32	1.58		4816	2714	600,000	10/32	7/64	1.74		5598	2911
650,000	8/32	3/32	1.62		5042	2868	650,000	10/32	4/32	1.81		6272	3064
700,000	8/32	7/64	1.68		5633	3022	700,000	10/32	4/32	1.84		6471	3213
750,000	8/32	4/32	1.72		6268	3197	750,000	10/32	4/32	1.88		6756	3401
800,000	8/32	4/32	1.78		6546	3379	800,000	10/32	4/32	1.91		6984	3581
850,000	8/32	4/32	1.81		6773	3566	850,000	10/32	4/32	1.94		7220	3772
900,000	8/32	4/32	1.85		7004	3746	900,000	10/32	4/32	1.97		7460	3966
950,000	8/32	4/32	1.87		7234	3929	950,000	10/32	4/32	2.00		7691	4147
1,000,000	8/32	4/32	1.90		7514	4111	1,000,000	10/32	4/32	2.03		7967	4331
1,250,000	8/32	4/32	2.04		8574	4938							
1,500,000	8/32	4/32	2.17		9692	5820							
1,750,000	8/32	4/32	2.28		10828	6719							
2,000,000	8/32	4/32	2.38		11890	7599							



Flat Twin
Leaded Cable
with Jute and
Asphalt Jacket for
Arc Light Circuits
where Subject to
Severe Conditions
as to Corrosion
of Lead

Specifications, diameters and weights for solid conductor approximately same as above.

The weights and diameters are approximate. The price and weight of a duplex (flat twin) cable is approximately twice that of a single conductor cable.

Duplex cables larger than 4/0 are very difficult to handle; therefore, for two-conductor cables larger than this size, either the two conductors stranded together to make round or the concentric form is recommended.

FOR WORKING PRESSURES NOT EXCEEDING
13,000 VOLTSFOR WORKING PRESSURES NOT EXCEEDING
17,000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.		Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.	
			Leaded	Br'd	Leaded	Braided				Leaded	Br'd	Leaded	Braided
6	12/32	5/64	1.09	Approximately same as Leaded	1724	636	6	14/32	3/32	1.25	Approximately same as Leaded	2193	755
4	12/32	5/64	1.14		1978	749	4	14/32	3/32	1.30		2488	873
3	12/32	3/32	1.20		2396	825	3	14/32	3/32	1.33		2701	948
2	12/32	3/32	1.23		2493	878	2	14/32	3/32	1.36		2803	1017
1	12/32	3/32	1.27		2668	986	1	14/32	3/32	1.40		2981	1123
0	12/32	3/32	1.31		2766	1048	0	14/32	3/32	1.44		3054	1161
00	12/32	3/32	1.36		2997	1211	00	14/32	3/32	1.48		3316	1351
000	12/32	3/32	1.41		3241	1383	000	14/32	3/32	1.53		3561	1530
0000	12/32	3/32	1.47		3561	1596	0000	14/32	3/32	1.59		3891	1757
250,000	12/32	3/32	1.52		3711	1715	250,000	14/32	3/32	1.64		4046	1872
300,000	12/32	3/32	1.57		4042	1940	300,000	14/32	7/64	1.73		4793	2106
350,000	12/32	3/32	1.62		4333	2159	350,000	14/32	7/64	1.78		5102	2334
400,000	12/32	7/64	1.70		4981	2330	400,000	14/32	4/32	1.86		5806	2548
450,000	12/32	7/64	1.75		5248	2516	450,000	14/32	4/32	1.90		6122	2719
500,000	12/32	7/64	1.79		5469	2701	500,000	14/32	4/32	1.94		6332	2884



Double Braided,
15,000 Volt Cable
for High Tension
Station Wiring

Specifications, diameters and weights for solid conductor approximately same as above.

The weights and diameters are approximate. The price and weight of a duplex (flat twin) cable is approximately twice that of a single conductor cable.

Duplex cables larger than 4/0 are very difficult to handle; therefore, for two-conductor cables larger than this size, either the two conductors stranded together to make round or the concentric form is recommended.

WIRES AND CABLES

VARNISHED CAMBRIC CABLES ((Concluded))

THREE CONDUCTOR, STRANDED, LEADED AND SINGLE BRAIDED

FOR WORKING PRESSURES NOT EXCEEDING
1000 VOLTSFOR WORKING PRESSURES NOT EXCEEDING
3000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.		Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.	
			Leaded	Br'd	Leaded	Braided				Leaded	Br'd	Leaded	Braided
6	1/16-1/64	1/16	.824		1245	538	6	5/64-2/32	5/64	1.016		1803	692
4	1/16-1/64	5/64	.959		1820	760	4	5/64-2/32	5/64	1.120		2159	930
3	1/16-1/64	5/64	1.020		2035	924	3	5/64-2/32	3/32	1.213		2782	1102
2	1/16-1/64	5/64	1.085		2290	1089	2	5/64-2/32	3/32	1.277		2955	1273
1	5/64-1/64	3/32	1.279		3066	1384	1	5/64-2/32	3/32	1.363		3291	1505
0	5/64-1/64	3/32	1.357		3446	1660	0	5/64-2/32	3/32	1.451		3725	1795
00	5/64-1/64	3/32	1.456		3933	2003	00	5/64-2/32	3/32	1.550		4206	2139
000	5/64-1/64	3/32	1.566		4528	2426	000	5/64-2/32	7/64	1.691		5184	2573
0000	5/64-1/64	7/64	1.723		5642	2955	0000	5/64-2/32	7/64	1.815		5928	3115
250,000	3/32-1/64	7/64	1.891		6470	3537	250,000	3/32-2/32	7/64	1.984		6805	3704
300,000	3/32-1/64	7/64	2.023		7296	4155	300,000	3/32-2/32	1/8	2.134		8169	4344
350,000	3/32-1/64	1/8	2.150		8595	4770	350,000	3/32-2/32	1/8	2.243		8986	4973
400,000	3/32-1/64	1/8	2.253		9347	5288	400,000	3/32-2/32	1/8	2.346		9692	5492
450,000	3/32-1/64	1/8	2.364		10144	5898	450,000	3/32-2/32	1/8	2.458		10535	6106
500,000	3/32-1/64	1/8	2.438		10870	6483	500,000	3/32-2/32	1/8	2.531		11288	6713



Three Conductor
Cable for Three-
wire Direct Current
or Three-phase Al-
ternating Current
Low Tension
System

FOR WORKING PRESSURES NOT EXCEEDING
5000 VOLTSFOR WORKING PRESSURES NOT EXCEEDING
7000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.		Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.		WT. IN LB. PER 1000 FT.	
			Leaded	Br'd	Leaded	Braided				Leaded	Br'd	Leaded	Braided
6	3/32-3/32	5/64	1.15		2092	835	6	4/32-4/32	3/32	1.38		2909	1083
4	3/32-3/32	3/32	1.28		2765	1083	4	4/32-4/32	3/32	1.48		3317	1352
3	3/32-3/32	3/32	1.34		3051	1265	3	4/32-4/32	3/32	1.54		3613	1545
2	3/32-3/32	3/32	1.41		3302	1444	2	4/32-4/32	3/32	1.61		3867	1733
1	3/32-3/32	3/32	1.50		3682	1686	1	4/32-4/32	3/32	1.69		4268	1991
0	3/32-3/32	3/32	1.58		4084	1982	0	4/32-4/32	7/64	1.81		5115	2302
00	3/32-3/32	7/64	1.71		4989	2338	00	4/32-4/32	7/64	1.91		5651	2673
000	3/32-3/32	7/64	1.82		5640	2790	000	4/32-4/32	7/64	2.02		6280	3139
0000	3/32-3/32	7/64	1.95		6401	3342	0000	4/32-4/32	1/8	2.18		7585	3713
250,000	3/32-3/32	1/8	2.08		7567	3835	250,000	4/32-4/32	1/8	2.28		8259	4200
300,000	3/32-3/32	1/8	2.20		8398	4476	300,000	4/32-4/32	1/8	2.39		9181	4892
350,000	3/32-3/32	1/8	2.31		9267	5113	350,000	4/32-4/32	1/8	2.50		10075	5550
400,000	3/32-3/32	1/8	2.41		9978	5641	400,000	4/32-4/32	1/8	2.61		10800	6086
450,000	3/32-3/32	1/8	2.52		10781	6256	450,000	4/32-4/32	1/8	2.71		11621	6719
500,000	3/32-3/32	1/8	2.60		11533	6866	500,000	4/32-4/32	1/8	2.79		12392	7348



Three Conductor
Cable, Leaded,
with Jute and As-
phalt Jacket and
Band Steel Armor,
for Use as Three-
phase Feeding Cable
Buried Direct in the
Earth Without Ad-
ditional Protection

FOR WORKING PRESSURES NOT EXCEEDING
10,000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.	WT. IN LB. PER 1000 FT.
6	5/32-5/32	3/32	1.57	3480
4	5/32-5/32	3/32	1.68	3992
3	5/32-5/32	3/32	1.74	4209
2	5/32-5/32	3/32	1.80	4480
1	5/32-5/32	7/64	1.92	5309
0	5/32-5/32	7/64	2.01	5797
00	5/32-5/32	7/64	2.11	6336
000	5/32-5/32	1/8	2.25	7539
0000	5/32-5/32	1/8	2.37	8373

FOR WORKING PRESSURES NOT EXCEEDING
13,000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.	WT. IN LB. PER 1000 FT.
6	6/32-6/32	3/32	1.77	4103
4	6/32-6/32	3/32	1.87	4542
3	6/32-6/32	7/64	1.97	5288
2	6/32-6/32	7/64	2.03	5623
1	6/32-6/32	7/64	2.12	6019
0	6/32-6/32	1/8	2.23	7070
00	6/32-6/32	1/8	2.33	7660
000	6/32-6/32	1/8	2.44	8350
0000	6/32-6/32	1/8	2.57	9199

FOR WORKING PRESSURES NOT EXCEEDING
17,000 VOLTS

Size	Thick. Insulation in Ins.	Thick. Lead in Ins.	DIA.	WT. IN LB. PER 1000 FT.
6	7/32-7/32	3/32	1.97	4784
4	7/32-7/32	7/64	2.10	5724
3	7/32-7/32	7/64	2.17	6033
2	7/32-7/32	7/64	2.23	6381
1	7/32-7/32	1/8	2.34	7364
0	7/32-7/32	1/8	2.43	7906
00	7/32-7/32	1/8	2.53	8459
000	7/32-7/32	1/8	2.64	9218
0000	7/32-7/32	1/8	2.77	10091



Three-phase
Leaded Cable
with Jute and As-
phalt Non-corro-
sive Jacket

NOTE.—Under thickness insulation, the first fraction is thickness of insulation on each conductor; the second fraction is thickness of insulation over all.

Four conductor cables with same thickness of insulation and lead approximately 10% greater in diameter than three conductor.

WIRES AND CABLES

PAPER INSULATED CABLES

Where the lead sheath of a cable can be preserved intact, paper insulated cables will give perfectly satisfactory service. While this type of insulation requires care in installation and also careful maintenance to obtain satisfactory results, its position as the lowest priced type of reliable insulated leaded cable, warrants its use largely in underground work. Only thin Manila rope paper of the very best grade is used on General Electric cables. This paper is applied in the form of tapes, smoothly and compactly wound around the copper cores. The paper wrapped cores are carefully dried under vacuum; great care being used to avoid overheating the paper insulation and in this way weakening it, and after being thoroughly de-hydrated the cores are fully impregnated with superior insulating compound.

In the tabulation given in the succeeding pages it will be noted that the thickness of lead specified is heavier than that used on either rubber or varnished cambric cables. This is due to the fact that the life of the paper insulated cable is dependent on the lead sheath remaining intact. Somewhat less thicknesses of lead can be furnished for special purposes but are not recommended.

Great care is taken to keep the lead sheaths uniform in thickness and free from imperfections.

All paper cables, after being leaded, receive pressure and galvanometer tests and careful inspection, the same as are applied to rubber and varnished cambric leaded cables. This Company cannot be held responsible for the failure of paper insulated cables where such failure is due to openings in the lead sheath caused by either electrolysis or other means beyond our control.

Light and power cables less than two inches core diameter are made with commercially pure lead jackets. On larger sizes of cable, many engineers prefer to add one or two per cent. of tin for the purpose of hardening somewhat the lead sheath. Any desired percentage of tin up to three per cent. can be furnished at a small additional charge when so ordered. All paper cables are tested for five minutes with at least two and a half times the working pressure.

Paper cables can be furnished with any of the special finishes over the lead described on page 325. It should be noted, however, that we do not recommend paper cable for submarine use.

WORKING AND TEST VOLTAGES

The following table gives the working and test voltages for any size cable with a given thickness of insulation or the proper thickness of insulation may be determined if the size conductor and working or test voltage is given, stating, of course, the length of time such test is to be made, whether five or thirty minutes.

The list applies to single- and three-conductor cables or in fact to any number of conductors providing the sum of the thickness of insulation on each conductor and over all agrees with that under "Thick Insulation." Example:—A three-conductor cable with 7/32 insulation on each conductor and 3/32 over all is to be considered the same as a single conductor with 10/32 insulation.

Kilo-Volts Work'g. Pressure	Sizes	Proper Thick. Insu- lation	TEST IN KILO-VOLTS						Kilo-Volts Work'g. Pressure	Sizes	Proper Thick. Insu- lation	TEST IN KILO-VOLTS					
			At Factory			After Installation						At Factory			After Installation		
			5 min.	30 min.	60 min.	5 min.	30 min.	60 min.				5 min.	30 min.	60 min.	5 min.	30 min.	60 min.
1	6-1	3/32	2500	2000	1600	2000	1600	1300	11	All Sizes	11/32	27500	22000	17600	22000	17600	14300
1	0- 1000000	7/64	2500	2000	1600	2000	1600	1300	12	All Sizes	12/32	30000	24000	19200	24000	19200	15600
			2500	2000	1600	2000	1600	1300	13	All Sizes	12/32	32500	26000	20800	26000	20800	16900
1.5	6-1	7/64	3750	3000	2400	3000	2400	1950	14	All Sizes	13/32	35000	28000	22400	28000	22400	18200
1.5	0- 2000000	4/32	3750	3000	2400	3000	2400	1950	15	All Sizes	13/32	37500	30000	24000	30000	24000	19500
			3750	3000	2400	3000	2400	1950	16	All Sizes	14/32	40000	32000	25600	32000	25600	20800
2	All Sizes	9/64	5000	4000	3200	4000	3200	2600	17	All Sizes	14/32	42500	34000	27200	34000	27200	22100
2.5	All Sizes	5/32	6250	5000	4000	5000	4000	3250	18	All Sizes	15/32	45000	36000	28800	36000	28800	23400
3	All Sizes	6/32	7500	6000	4800	6000	4800	3900	19	All Sizes	15/32	47500	38000	30400	38000	30400	24700
4	All Sizes	7/32	10000	8000	6400	8000	6400	5200	20	All Sizes	16/32	50000	40000	32000	40000	32000	26000
5	All Sizes	8/32	12500	10000	8000	10000	8000	6500	21	All Sizes	16/32	52500	42000	33600	42000	33600	27300
6	All Sizes	9/32	15000	12000	9600	12000	9600	7800	22	All Sizes	17/32	55000	44000	35200	44000	35200	28600
7	All Sizes	9/32	17500	14000	11200	14000	11200	9100	23	All Sizes	17/32	57500	46000	36800	46000	36800	29900
8	All Sizes	10/32	20000	16000	12800	16000	12800	10400	24	All Sizes	18/32	60000	48000	38400	48000	38400	31200
9	All Sizes	10/32	22500	18000	14400	18000	14400	11700	25	All Sizes	18/32	62500	50000	40000	50000	40000	32500
10	All Sizes	11/32	25000	20000	16000	20000	16000	13000									

Kilo-Volts=1000 Volts:

Above working voltages are based on all conductors of the circuit being insulated. For D.C. 600 volt railway service, with one pole of the circuit grounded, use cable for 1500 volts working pressure.

In absence of specific instructions insulation on three-conductor cables will be evenly divided between single conductors and belt.

WIRES AND CABLES

PAPER INSULATED CABLES (Continued)

SINGLE CONDUCTOR, STRANDED

FOR WORKING PRESSURES NOT EXCEEDING
1000 VOLTS

FOR WORKING PRESSURES NOT EXCEEDING
2000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.	Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead				Insulation	Lead		
6	3/32	3/32	.56	813	6	9/64	3/32	.66	993
4	3/32	3/32	.61	938	4	9/64	3/32	.70	1128
3	3/32	3/32	.64	1018	3	9/64	3/32	.73	1210
2	3/32	3/32	.67	1136	2	9/64	3/32	.76	1296
1	3/32	3/32	.71	1237	1	9/64	3/32	.80	1434
0	7/64	3/32	.78	1440	0	9/64	3/32	.84	1583
00	7/64	3/32	.83	1603	00	9/64	7/64	.92	1933
000	7/64	3/32	.88	1795	000	9/64	7/64	.97	2183
0000	7/64	7/64	.97	2240	0000	9/64	7/64	1.03	2412
250,000	7/64	7/64	1.02	2455	250,000	9/64	7/64	1.08	2634
300,000	7/64	7/64	1.07	2706	300,000	9/64	7/64	1.13	2889
350,000	7/64	7/64	1.12	2955	350,000	9/64	7/64	1.18	3140
400,000	7/64	7/64	1.17	3207	400,000	9/64	7/64	1.23	3397
450,000	7/64	7/64	1.21	3457	450,000	9/64	7/64	1.28	3643
500,000	7/64	7/64	1.26	3701	500,000	9/64	7/64	1.32	3849
550,000	7/64	7/64	1.30	3903	550,000	9/64	7/64	1.36	4098
600,000	7/64	7/64	1.33	4155	600,000	9/64	7/64	1.40	4308
650,000	7/64	7/64	1.38	4356	650,000	9/64	7/64	1.43	4555
700,000	7/64	7/64	1.41	4604	700,000	9/64	7/64	1.47	4760
750,000	7/64	7/64	1.44	4808	750,000	9/64	1/8	1.53	5382
800,000	7/64	1/8	1.50	5369	800,000	9/64	1/8	1.57	5588
850,000	7/64	1/8	1.53	5632	850,000	9/64	1/8	1.60	5801
900,000	7/64	1/8	1.57	5835	900,000	9/64	1/8	1.63	6013
950,000	7/64	1/8	1.59	6046	950,000	9/64	1/8	1.66	6269
1,000,000	7/64	1/8	1.62	6259	1,000,000	9/64	1/8	1.69	6484
1,250,000	4/32	1/8	1.79	7452	1,250,000	9/64	1/8	1.82	7545
1,500,000	4/32	1/8	1.92	8500	1,500,000	9/64	1/8	1.95	8597
1,750,000	4/32	1/8	2.03	9563	1,750,000	9/64	1/8	2.06	9667
2,000,000	4/32	1/8	2.13	10570	2,000,000	9/64	1/8	2.17	10675



The weights and diameters are approximate. The price and weight of a duplex (flat twin) cable is approximately twice that of a single conductor cable.

Duplex cables larger than 4/0 are very difficult to handle; therefore, for two-conductor cables larger than this size, either the two conductors stranded together to make round or the concentric form is recommended.

FOR WORKING PRESSURES NOT EXCEEDING
2500 VOLTS

FOR WORKING PRESSURES NOT EXCEEDING
3000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.	Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead				Insulation	Lead		
6	5/32	3/32	.69	1041	6	6/32	3/32	.75	1222
4	5/32	3/32	.74	1178	4	6/32	3/32	.80	1320
3	5/32	3/32	.76	1261	3	6/32	3/32	.82	1407
2	5/32	3/32	.80	1388	2	6/32	3/32	.86	1496
1	5/32	3/32	.84	1487	1	6/32	7/64	.93	1864
0	5/32	3/32	.88	1643	0	6/32	7/64	.97	1985
00	5/32	7/64	.95	2039	00	6/32	7/64	1.02	2170
000	5/32	7/64	1.00	2246	000	6/32	7/64	1.07	2379
0000	5/32	7/64	1.06	2481	0000	6/32	7/64	1.12	2665
250,000	5/32	7/64	1.11	2700	250,000	6/32	7/64	1.17	2841
300,000	5/32	7/64	1.16	2957	300,000	6/32	7/64	1.23	3147
350,000	5/32	7/64	1.22	3209	350,000	6/32	7/64	1.28	3398
400,000	5/32	7/64	1.26	3470	400,000	6/32	7/64	1.33	3662
450,000	5/32	7/64	1.31	3719	450,000	6/32	7/64	1.37	3868
500,000	5/32	7/64	1.35	3968	500,000	6/32	7/64	1.41	4125
550,000	5/32	7/64	1.39	4179	550,000	6/32	7/64	1.45	4378
600,000	5/32	7/64	1.43	4430	600,000	6/32	1/8	1.52	4956
650,000	5/32	7/64	1.46	4634	650,000	6/32	1/8	1.56	5215
700,000	5/32	1/8	1.53	5259	700,000	6/32	1/8	1.59	5425
750,000	5/32	1/8	1.56	5469	750,000	6/32	1/8	1.63	5647
800,000	5/32	1/8	1.60	5680	800,000	6/32	1/8	1.66	5907
850,000	5/32	1/8	1.63	5893	850,000	6/32	1/8	1.69	6122
900,000	5/32	1/8	1.66	6152	900,000	6/32	1/8	1.72	6338
950,000	5/32	1/8	1.69	6362	950,000	6/32	1/8	1.75	6547
1,000,000	5/32	1/8	1.72	6576	1,000,000	6/32	1/8	1.78	6813
1,250,000	5/32	1/8	1.85	7693	1,250,000	6/32	1/8	1.92	7891
1,500,000	5/32	1/8	1.98	8749	1,500,000	6/32	1/8	2.04	8950
1,750,000	5/32	1/8	2.09	9771	1,750,000	6/32	1/8	2.15	10040
2,000,000	5/32	1/8	2.20	10780	2,000,000	6/32	9/64	2.26	11593



The weights and diameters are approximate. The price and weight of a duplex (flat twin) cable is approximately twice that of a single conductor cable.

Duplex cables larger than 4/0 are very difficult to handle; therefore, for two-conductor cables larger than this size, either the two conductors stranded together to make round or the concentric form is recommended.

WIRES AND CABLES

PAPER INSULATED CABLES (Continued)

SINGLE CONDUCTOR, STRANDED

FOR WORKING PRESSURES NOT EXCEEDING 5000 VOLTS

FOR WORKING PRESSURE NOT EXCEEDING 7000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.	Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead				Insulation	Lead		
6	8/32	3/32	.87	1438	6	9/32	7/64	.97	1781
4	8/32	7/64	.95	1806	4	9/32	7/64	1.02	1937
3	8/32	7/64	.98	1911	3	9/32	7/64	1.04	2040
2	8/32	7/64	1.01	2009	2	9/32	7/64	1.08	2188
1	8/32	7/64	1.05	2164	1	9/32	7/64	1.12	2302
0	8/32	7/64	1.09	2298	0	9/32	7/64	1.16	2477
00	8/32	7/64	1.14	2489	00	9/32	7/64	1.20	2671
000	8/32	7/64	1.19	2702	000	9/32	7/64	1.25	2888
0000	8/32	7/64	1.25	2989	0000	9/32	7/64	1.31	3138
250,000	8/32	7/64	1.30	3173	250,000	9/32	7/64	1.36	3369
300,000	8/32	7/64	1.35	3483	300,000	9/32	7/64	1.41	3638
350,000	8/32	7/64	1.40	3747	350,000	9/32	7/64	1.46	3904
400,000	8/32	7/64	1.45	4012	400,000	9/32	1/8	1.54	4547
450,000	8/32	7/64	1.49	4233	450,000	9/32	1/8	1.59	4820
500,000	8/32	1/8	1.57	4865	500,000	9/32	1/8	1.63	5091
550,000	8/32	1/8	1.61	5137	550,000	9/32	1/8	1.67	5316
600,000	8/32	1/8	1.65	5354	600,000	9/32	1/8	1.71	5590
650,000	8/32	1/8	1.68	5624	650,000	9/32	1/8	1.74	5818
700,000	8/32	1/8	1.72	5847	700,000	9/32	1/8	1.78	6082
750,000	8/32	1/8	1.75	6061	750,000	9/32	1/8	1.81	6298
800,000	8/32	1/8	1.78	6330	800,000	9/32	1/8	1.85	6520
850,000	8/32	1/8	1.81	6542	850,000	9/32	1/8	1.88	6740
900,000	8/32	1/8	1.85	6760	900,000	9/32	1/8	1.91	7011
950,000	8/32	1/8	1.88	6978	950,000	9/32	1/8	1.94	7225
1,000,000	8/32	1/8	1.90	7246	1,000,000	9/32	1/8	1.97	7443
1,250,000	8/32	1/8	2.04	8361	1,250,000	9/32	1/8	2.10	8611
1,500,000	8/32	1/8	2.17	9417	1,500,000	9/32	1/8	2.23	9634
1,750,000	8/32	9/64	2.31	11071	1,750,000	9/32	9/64	2.37	11304
2,000,000	8/32	9/64	2.41	12118	2,000,000	9/32	9/64	2.48	12357

The weights and diameters are approximate. The price and weight of a duplex (flat twin) cable is approximately twice that of a single conductor cable.

Duplex cables larger than 4/0 are very difficult to handle; therefore, for two-conductor cables larger than this size, either the two conductors stranded together to make round or the concentric form is recommended.

FOR WORKING PRESSURES NOT EXCEEDING 10,000 VOLTS

FOR WORKING PRESSURES NOT EXCEEDING 13,000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.	Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead				Insulation	Lead		
6	11/32	7/64	1.09	2087	6	12/32	7/64	1.15	2263
4	11/32	7/64	1.14	2250	4	12/32	7/64	1.21	2425
3	11/32	7/64	1.17	2360	3	12/32	7/64	1.23	2542
2	11/32	7/64	1.20	2505	2	12/32	7/64	1.26	2647
1	11/32	7/64	1.24	2630	1	12/32	7/64	1.30	2815
0	11/32	7/64	1.28	2810	0	12/32	7/64	1.35	2956
00	11/32	7/64	1.33	3008	00	12/32	7/64	1.40	3158
000	11/32	7/64	1.38	3234	000	12/32	7/64	1.44	3385
0000	11/32	7/64	1.44	3489	0000	12/32	1/8	1.54	4060
250,000	11/32	1/8	1.51	4090	250,000	12/32	1/8	1.58	4259
300,000	11/32	1/8	1.57	4370	300,000	12/32	1/8	1.64	4597
350,000	11/32	1/8	1.62	4661	350,000	12/32	1/8	1.69	4886
400,000	11/32	1/8	1.67	4946	400,000	12/32	1/8	1.74	5174
450,000	11/32	1/8	1.72	5228	450,000	12/32	1/8	1.78	5459
500,000	11/32	1/8	1.76	5506	500,000	12/32	1/8	1.83	5738
550,000	11/32	1/8	1.79	5735					
600,000	11/32	1/8	1.83	6008					
650,000	11/32	1/8	1.87	6237					
700,000	11/32	1/8	1.90	6459					
750,000	11/32	1/8	1.94	6734					
800,000	11/32	1/8	1.97	6960					
850,000	11/32	1/8	2.00	7185					
900,000	11/32	1/8	2.03	7455					
950,000	11/32	1/8	2.06	7678					
1,000,000	11/32	1/8	2.09	7899					

FOR WORKING PRESSURES NOT EXCEEDING 17,000 VOLTS

The weights and diameters are approximate. The price and weight of a duplex (flat twin) cable is approximately twice that of a single conductor cable.

Duplex cables larger than 4/0 are very difficult to handle; therefore, for two-conductor cables larger than this size, either the two conductors stranded together to make round or the concentric form is recommended.

Size	Insulation	Lead	Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
6	14/32	7/64	1.28	2589
4	14/32	7/64	1.33	2761
3	14/32	7/64	1.36	2881
2	14/32	7/64	1.39	2995
1	14/32	7/64	1.43	3167
0	14/32	7/64	1.47	3308
00	14/32	1/8	1.55	3890
000	14/32	1/8	1.60	4134
0000	14/32	1/8	1.66	4461
250,000	14/32	1/8	1.70	4670
300,000	14/32	1/8	1.76	5015
350,000	14/32	1/8	1.81	5305
400,000	14/32	1/8	1.86	5603
450,000	14/32	1/8	1.91	5894
500,000	14/32	1/8	1.96	6178

WIRES AND CABLES

PAPER INSULATED CABLES (Concluded)

THREE CONDUCTOR, STRANDED

FOR WORKING PRESSURES NOT EXCEEDING
1000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead		
6	1/16-1/32	7/64	.95	1891
4	1/16-1/32	7/64	1.05	2248
3	1/16-1/32	7/64	1.11	2450
2	1/16-1/32	7/64	1.18	2607
1	1/16-1/32	7/64	1.27	3061
0	5/64-1/32	7/64	1.42	3627
00	5/64-1/32	1/8	1.55	4483
000	5/64-1/32	1/8	1.66	5107
0000	5/64-1/32	1/8	1.79	5836
250,000	5/64-1/32	1/8	1.89	6457
300,000	5/64-1/32	1/8	2.01	7242
350,000	5/64-1/32	1/8	2.12	7980
400,000	5/64-1/32	1/8	2.22	8728
450,000	5/64-1/32	1/8	2.31	9359
500,000	5/64-1/32	9/64	2.43	10775



Three-Conductor
Cable for Three-
Wire Direct Current
or Three-Phase Al-
ternating Current
Low Tension
System

FOR WORKING PRESSURES NOT EXCEEDING
3000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead		
6	3/32-3/32	7/64	1.21	2517
4	3/32-3/32	7/64	1.32	2897
3	3/32-3/32	7/64	1.37	3159
2	3/32-3/32	7/64	1.44	3416
1	3/32-3/32	1/8	1.56	4181
0	3/32-3/32	1/8	1.65	4592
00	3/32-3/32	1/8	1.75	5115
000	3/32-3/32	1/8	1.86	5764
0000	3/32-3/32	1/8	1.98	6413
250,000	3/32-3/32	1/8	2.08	7153
300,000	3/32-3/32	1/8	2.20	7913
350,000	3/32-3/32	9/64	2.34	9277
400,000	3/32-3/32	9/64	2.44	10067
450,000	3/32-3/32	9/64	2.51	10225
500,000	3/32-3/32	9/64	2.63	11557

FOR WORKING PRESSURES NOT EXCEEDING 5000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead		
6	4/32-4/32	7/64	1.44	3396
4	4/32-4/32	1/8	1.54	3821
3	4/32-4/32	1/8	1.60	4058
2	4/32-4/32	1/8	1.67	4387
1	4/32-4/32	1/8	1.75	4818
0	4/32-4/32	1/8	1.84	5244
00	4/32-4/32	1/8	1.95	5785
000	4/32-4/32	1/8	2.05	6402
0000	4/32-4/32	1/8	2.18	7171
250,000	4/32-4/32	9/64	2.31	8378
300,000	4/32-4/32	9/64	2.43	9238
350,000	4/32-4/32	9/64	2.54	10092
400,000	4/32-4/32	9/64	2.64	10900
450,000	4/32-4/32	9/64	2.73	11630
500,000	4/32-4/32	9/64	2.82	12418

FOR WORKING PRESSURES NOT EXCEEDING 7000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead		
6	9/64-9/64	1/8	1.54	3701
4	9/64-9/64	1/8	1.64	4128
3	9/64-9/64	1/8	1.70	4375
2	9/64-9/64	1/8	1.77	4709
1	9/64-9/64	1/8	1.85	5098
0	9/64-9/64	1/8	1.94	5583
00	9/64-9/64	1/8	2.04	6129
000	9/64-9/64	1/8	2.15	6757
0000	9/64-9/64	9/64	2.30	8086
250,000	9/64-9/64	9/64	2.40	8779
300,000	9/64-9/64	9/64	2.52	9654
350,000	9/64-9/64	9/64	2.63	10457
400,000	9/64-9/64	9/64	2.74	11325
450,000	9/64-9/64	9/64	2.83	12067
500,000	9/64-9/64	9/64	2.92	12862

FOR WORKING PRESSURES NOT EXCEEDING 10,000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead		
6	6/32-5/32	1/8	1.77	4420
4	6/32-5/32	1/8	1.88	4874
3	6/32-5/32	1/8	1.93	5178
2	6/32-5/32	1/8	2.00	5482
1	6/32-5/32	1/8	2.08	5937
0	6/32-5/32	1/8	2.17	6388
00	6/32-5/32	9/64	2.30	7506
000	6/32-5/32	9/64	2.41	8235
0000	6/32-5/32	9/64	2.54	9070

FOR WORKING PRESSURES NOT EXCEEDING 13,000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead		
6	6/32-6/32	1/8	1.83	4658
4	6/32-6/32	1/8	1.94	5117
3	6/32-6/32	1/8	1.99	5380
2	6/32-6/32	1/8	2.06	5733
1	6/32-6/32	1/8	2.15	6142
0	6/32-6/32	1/8	2.24	6650
00	6/32-6/32	9/64	2.37	7800
000	6/32-6/32	9/64	2.48	8475
0000	6/32-6/32	9/64	2.60	9318

FOR WORKING PRESSURES NOT EXCEEDING 17,000 VOLTS

Size	THICKNESS IN INS.		Over all Dia. in Ins.	Wt. in Lb. Per 1000 Ft.
	Insulation	Lead		
6	7/32-7/32	1/8	2.03	5342
4	7/32-7/32	1/8	2.14	5821
3	7/32-7/32	1/8	2.19	6095
2	7/32-7/32	9/64	2.29	7009
1	7/32-7/32	9/64	2.38	7459

The weights and diameters are approximate.

ADHESIVE TAPE

Two styles of tape are required in every station—one for outside work and unprotected joints; the other for such places as occur in dynamo windings where the taped joints have additional covering.

WIRES AND CABLES

ADHESIVE TAPE (Concluded)

ACME TAPE

Acme tape is the best grade of friction tape obtainable.

The compound is rich in rubber and, therefore, light in weight, uniform in its adhesion and not subject to rapid deterioration. The cloth of which it is made is snugly woven and of good quality. The compound contains no sulphur and will not oxidize the copper. Acme tape is especially adapted for use in the construction or repair of electrical apparatus, such as motors, generators, etc. On account of the high quality of compound used, this tape is really an insulator and not simply sticky cloth, as are many of the cheaper grades. Acme tape can be supplied in either white or dark slate.

RED LABEL

In order to meet the demand for a friction tape of good quality but of a lower price than Acme, for use where the conditions are not so severe, the General Electric Company has brought out a cheaper grade known as Red Label. This tape is 40% cheaper per pound. It has been brought out after a number of competitive tests made on the medium priced and cheaper priced tapes on the market and can be recommended as the cheapest tape of reasonably good quality, considering always the large number of yards per pound compared with the cheaper grades. Red Label tape is at present supplied only in dark slate color.

PARAGON

Paragon tape has the same quality of cloth as the Acme, but is filled with a non-rubber, weatherproof, adhesive compound. (It is the cheapest tape on the market, as it contains fully as many yards per pound as the Acme tape, which makes the cost per yard practically one-half that of Acme.) It is especially adapted to exterior work on account of its non-drying properties and is largely used in the manufacture of made-up street car cables and for similar purposes.

Tape of any width up to 2 in. can be furnished.

Description	LBS. PER PACKAGE		List Price Per Lb.
	$\frac{3}{4}$ In. Wide	1 In. Wide	
Acme friction tape.....	$\frac{3}{4}$	1	\$1.00
Red Label tape.....	$\frac{1}{2}$	1	.60
Paragon tape.....	$\frac{1}{2}$	1	.50

GENERAL ELECTRIC SPLICING MATERIALS

The General Electric Company manufactures a full line of splicing material: Splicing Gum, Pure Gum Faced Tape, Varnished Cambric Tape, Treated Paper Tape and No. 67 Compound.

The Splicing Gum is of superior quality and of particular value when waterproof joints are to be made. Special pains are taken to make this gum tough and durable. It is capable of standing safely a temperature which causes ordinary splicing compounds to lose their tensile strength. At normal temperature the warmth of the hand is sufficient to cause adhesion of the tape upon itself. In freezing weather the heat of a match will enable the gum to be worked into a solid mass.

Pure Gum Faced Tape, which is an excellent substitute for cut sheet rubber and strip compound, is a combination of a vulcanizable rubber backing 1-32" thick, with a facing of pure Para rubber 1-64" thick. It can be vulcanized on a joint or left unvulcanized as desired, and it is recommended for use on high tension joints or where very high insulation resistance is required. Both splicing gum and pure gum faced tape can be supplied in any width from $\frac{3}{4}$ " to 6".

VARNISHED CAMBRIC TAPE

This is used for repair or construction work on apparatus insulated with varnished cambric, such as high tension alternator coils, transformers, etc. It is the material that is largely used in the construction of General Electric apparatus and has a higher puncture resistance than any other tape of the same thickness, at least 10,000 volts being required to puncture it instantaneously. It may be used to advantage in cable jointing as it does not absorb moisture; moreover, the joint cannot get out of place through the insulating material being crowded to one side. It is also largely used in insulating joints in the rear of high tension switchboards. When the tape is used for this purpose, however, it is recommended that a coat of 152 standard quick-drying insulating varnish made by the General Electric Company be applied between the layers.

TREATED PAPER TAPE

This consists of pure Manila paper which has been dried in a vacuum and impregnated with special cable compound. It is packed in tin boxes which are filled with paraffine so that there is no danger of the paper absorbing moisture in any climate. When the tape is wanted for use, the tin box itself can be heated with a blow-lamp or can be dropped into a small pan of hot paraffine which immediately melts the paraffine in which the paper is packed and at the same time warms the tape. This makes it ready for the joiner to use under the best conditions, as it will be perfectly free from moisture and will be warm, soft and pliable. This tape has been used in jointing paper cables of all tensions from 100 to 15,000 volts and has given perfect satisfaction.

WIRES AND CABLES

GENERAL ELECTRIC SPLICING MATERIALS (Concluded)

No. 67 INSULATING COMPOUND

For filling cable joints, end bells, and similar work, No. 67 Insulating Compound is manufactured. This material is fluid at 212° F. (boiling point of water) and will not crack at 0° F. It is strongly adhesive, does not corrode copper, and does not check or crack in cooling like paraffine. Guaranteed for 25,000 volt work.

Description	List Price Per Lb.	Description	List Price Per Lb.
Splicing gum, $\frac{1}{4}$ in. wide, 1 lb. package (2 rolls per pkg.).	\$1.50	Pure gum faced tape, 1 in. wide, 1 lb. package.....	\$3.30
Splicing gum, $\frac{1}{2}$ in. wide, $\frac{1}{4}$ lb. package.....	1.50	Varnished cambric, cut on bias (in strips).....	1.20
Splicing gum, 1 in. wide, 1 lb. package.....	1.50	Varnished cambric, cut straight (in rolls).....	.90
Pure gum faced tape, $\frac{1}{4}$ in. wide, 1 lb. package (2 rolls per package).....	3.30	Treated paper tape, 1 in. wide.....	.40
Pure gum faced tape, $\frac{1}{2}$ in. wide, $\frac{1}{4}$ lb. package.....	3.30	No. 67 insulating compound, 9 lb. package.....	.30

COPPER CABLE CONNECTORS

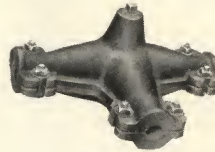
These joints are made from seamless drawn copper tubing of 98% conductivity and are thoroughly tinned. The ends are chamfered, removing all sharp edges, and a slot is provided for soldering. The copper section of the joint is guaranteed to be the full equivalent of the copper section of the cable.

Size	List Price Per 100	Size	List Price Per 100	Size	List Price Per 100	Size	List Price Per 100
8 B.&S.	\$15.00	0 B.&S.	\$20.00	300,000 C.M.	\$40.00	700,000 C.M.	\$74.00
6 B.&S.	15.50	125,000 C.M.	20.00	350,000 C.M.	40.00	750,000 C.M.	75.00
5 B.&S.	15.50	00 B.&S.	20.00	400,000 C.M.	43.00	800,000 C.M.	87.00
4 B.&S.	16.00	150,000 C.M.	20.50	450,000 C.M.	43.00	900,000 C.M.	90.00
3 B.&S.	16.00	000 B.&S.	20.50	500,000 C.M.	50.00	1,000,000 C.M.	93.00
2 B.&S.	17.00	200,000 C.M.	25.00	550,000 C.M.	52.00	1,250,000 C.M.	119.00
1 B.&S.	17.00	0000 B.&S.	25.00	600,000 C.M.	65.00	1,500,000 C.M.	158.00
100,000 C.M.	20.00	250,000 C.M.	26.00	650,000 C.M.	65.00	2,000,000 C.M.	203.00

CAST IRON COUPLING AND TEE BOXES FOR CABLES



Straight Box



Tee Box

The General Electric Company manufactures a full line of split cast iron coupling and tee boxes for use with either single or multiple conductor cables, for burial direct in the earth or for conditions where a substitute for the lead sleeve is desired. These boxes have a groove in the flange for a jute packing to make the box compound tight. They are also provided with a filling hole closed by a standard pipe plug.

In ordering boxes the customer should specify the next size larger than the diameter of the cable with which they are to be used; the difference in diameter being taken up by several wraps of well tarred burlap. When C.L.A.I. cables are used the boxes should be large enough to clamp over the band steel armor.

No. 67 Filling Compound is recommended for use with these boxes.

LIST PRICES

Max. Over all Dia. of Cable	Length of Box Ins.	Cat. No.	STRAIGHT BOX		Cat. No.	TEE BOX		Max. Over all Dia. of Cable	Length of Box Ins.	Cat. No.	STRAIGHT BOX		Cat. No.	TEE BOX	
			Com- pound Required in Lb.	List Price Each		Com- pound Required in Lb.	List Price Each				Com- pound Required in Lb.	List Price Each		Com- pound Required in Lb.	List Price Each
$1\frac{1}{2}$	12	46130	2	\$1.90	46137	3	\$2.80	$2\frac{1}{2}$	20 $\frac{1}{2}$	46134	12 $\frac{1}{2}$	\$4.50	46141	18	\$6.70
$1\frac{1}{2}$	16	46131	4 $\frac{1}{2}$	2.75	46138	7	4.20	$2\frac{1}{2}$	22	46135	13	5.00	46142	19	7.50
2	17	46132	5 $\frac{1}{2}$	2.90	46139	8	4.40	$2\frac{1}{2}$	23	46136	15	5.40	46143	21	8.00
$2\frac{1}{2}$	19	46133	8 $\frac{1}{2}$	3.30	46140	12	4.90								

INCANDESCENT LAMPS

Main Lamp Sales Offices, Harrison, N. J.

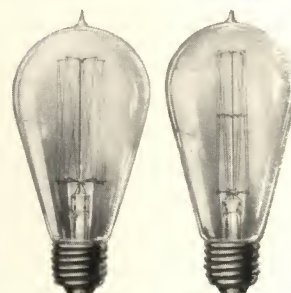
The General Electric Company manufactures and is ready to furnish Carbon, Gem, Tantalum and Tungsten Incandescent Lamps in standard candle powers, voltages and efficiencies suitable for any purpose and for any service. Following is an abridged list of the lamps most generally used.

Edison Carbon Lamps. (Efficiency 3.1, 3.5 and 4 w.p.c.) In 2 to 32 c.p. (20 to 99, 100 to 130 and 200 to 260 volts) regular bulbs for standard lighting and sign service and in irregular types as follows: Mill type, round bulb, tubular, stereopticon or headlight, reflector and special lamps. Also miniature lamps of decorative, candelabra and battery types.

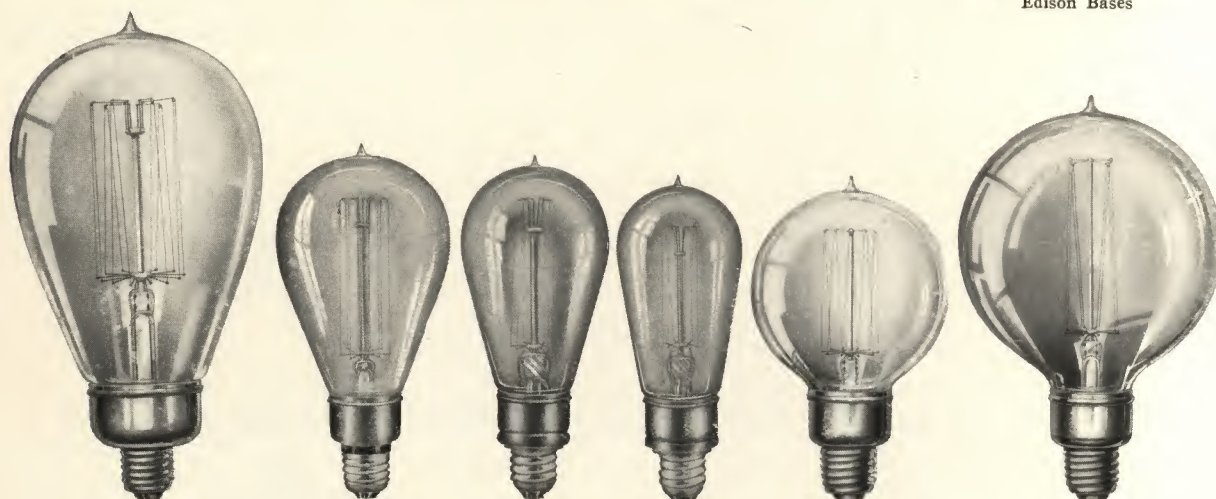
Edison Gem Lamps. (Efficiency $2\frac{1}{2}$ w.p.c.) In 16, 20, 32, 40, 50, 75 and 100 c.p., 95 to 130 volts, regular bulbs for standard lighting circuits. Also Meridian (round bulb) types 50 and 100 watts.

G.E. Tantalum Lamps. (Efficiency 2 w.p.c.) Regular bulbs for standard lighting circuits, 100 to 125 volts, 25, 40, 50, and 80 watts; Meridian (round bulb) types 40 and 80 watts. Also in train lighting types for 25 to 34 volts and 58 to 65 volts.

G.E. Tungsten Lamps. (Efficiency 1 to $1\frac{1}{2}$ w.p.c.) Regular bulbs for standard lighting circuits, 100 to 125 volts, 25, 40, 60, 100 and 250 watts, and Meridian (round bulb) types 40 and 60 watts. For street series lamps 1.75 to 8 amperes, 25, 32, 40, 60 to 80 candle power. Also low voltage and miniature battery types for portables, novelties, automobile lanterns, etc. Tungsten sign and train lighting lamps.



40 Watts 25 Watts
G.E. Tungsten Lamps with
Small Bulbs and Standard
Edison Bases

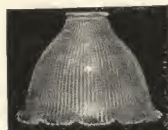


250 Watts 100 Watts 60 Watts 40 Watts 40 Watts 60 Watts
G.E. Tungsten Lamps for High Efficiency Units (100 to 125 Volts) Large Bulb, Shoulder Base—Regular and Meridian Types

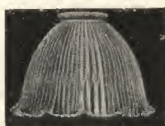
NOTE:—Address inquiries and orders relating to Incandescent lamps to any local office of the General Electric Company, or to the Main Lamp Sales Offices, Harrison, N. J.

HIGH EFFICIENCY HOLOPHANE REFLECTORS FOR GENERAL ELECTRIC INCANDESCENT LAMPS

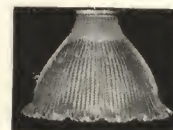
Proper Glass Reflectors greatly improve the lighting value and appearance of high efficiency Incandescent Lamps. The High-Efficiency Holophanes are scientifically designed and by reflection and refraction throw the light where needed. They are neat and ornamental and adaptable to any surroundings.



Intensive Holophane



Extensive Holophane



Focusing Holophane

One or another of the three types illustrated will be found suitable for almost any installation. By using Holophanes the maximum advantages are obtained from Gem, Tantalum and Tungsten lamps.

INCANDESCENT LAMPS

Main Lamp Sales Offices, Harrison, N. J.

HIGH EFFICIENCY HOLOPHANE REFLECTORS FOR GENERAL ELECTRIC INCANDESCENT LAMPS (Concluded)

PRICES OF HOLOPHANE REFLECTORS AND FITTINGS

TABLE SHOWS PROPER LAMP AND HOLDER TO BE USED WITH EACH HOLOPHANE

REGULAR LAMPS			HIGH EFFICIENCY HOLOPHANE REFLECTORS											HOLDERS			
Gem Watts	Tanta- lum Watts	Tung- sten Watts	EXTENSIVE TYPE			INTENSIVE TYPE			FOCUSING TYPE			Std. Case	Std. Quantity for Discount	Finish	Form	List Price	
			Cat. No.	Desig- nation	List Price	Cat. No.	Desig- nation	List Price	Cat. No.	Desig- nation	List Price						
40 50 80	40 — —	25 40 60	106,225	E-3	\$0.60	106,125	I-3	\$0.65	106,325	F-3	\$0.65	20	60	Satin Finish 15 per cent. Additional	{ O *O *H H H	\$0.08	
100 125	— —	100	106,230	E-5	.65	106,130	I-5	.70	106,330	F-5	.70	10	40			.08	
			106,250	E-7	.70	106,150	I-7	.85	106,350	F-7	.85	10	40			.12	
			106,280	E-9	.95	106,180	I-9	1.05	106,380	F-9	1.05	10	40			.12	
187 250 —	— — —	— 250	Bowl type of Reflector			106,081	B-4	\$1.20				10	40		H	\$0.12	
			"	"	"	106,111	B-5	1.50				10	30		H	.12	
			"	"	"	106,121	B-6	2.45				6	12		A	.30	
MERIDIAN LAMPS																	
50 100	40 80	40 60	S-1 Reflector S-2 "			106,008	S-1	\$0.45				20	60		H H	\$0.12	
						106,010	S-2	.65				20	40			.12	

* 80-watt Gem Lamps and small bulb 40-watt Tungstens take Form O Holders, 40-watt Tungstens with large shoulder base take Form H Holders.

Standard Quantity on Holders when ordered separately, 100 of one kind.

Prices on holders apply to Polished Brass Finish. Prices for Special Finishes on application.

LAMP SHADES

TIN AND PAPER



Cat. No.
8902

Cat. No.
8897

Cat. No.
8905

Cat. No.
14221

Shades listed in the following table are for 2½ in. holders. Shades for other sizes of holders can be furnished if desired.

Cat. No.	Description	List Price Per Doz.
8902	Deep cone tin shade, 10" diam.....	Prices on Application
8903	Deep cone tin shade, 12" diam.....	
8904	Deep cone tin shade, 14" diam.....	
8905	Green paper shade, 10" diam.....	
8897	Flat tin shade, 8" diam.....	
8898	Flat tin shade, 10" diam.....	
8899	Flat tin shade, 12" diam.....	
8900	Flat tin shade, 14" diam.....	
8901	Flat tin shade, 16" diam.....	
14221	Tin half shade.....	

INCANDESCENT LAMPS

LAMP SHADES (Concluded)

GLASS

Cat. No.
8968Cat. No.
8969Cat. No.
8946Cat. No.
8934Cat. No.
8958Cat. No.
8942Cat. No.
8953

Cat. No.	Description	List Price per Doz.
8934	Deep scallop opal, 2 1/2" holder, 6" diam.....	Prices on Application
8935	Deep scallop opal, 2 1/2" holder, 8" diam.....	
8936	Flat scallop opal, 2 1/2" holder, 6" diam.....	
8937	Flat scallop opal, 2 1/2" holder, 8" diam.....	
8938	Flat scallop opal, 2 1/2" holder, 10" diam.....	
8939	Flat scallop opal, 2 1/2" holder, 12" diam.....	
8940	Flat scallop opal, 2 1/2" holder, 15" diam.....	
8941	Flat scallop opal, 3 1/2" holder, 6" diam.....	
8942	Flat scallop opal, 3 1/2" holder, 8" diam.....	
8943	Flat scallop opal, 3 1/2" holder, 10" diam.....	
8944	Flat scallop opal, 3 1/2" holder, 12" diam.....	
8945	Flat scallop opal, 3 1/2" holder, 15" diam.....	
8946	Deep fluted opal, 2 1/2" holder, 5" diam.....	
8947	Deep fluted opal, 2 1/2" holder, 6" diam.....	
8948	Deep fluted opal, 2 1/2" holder, 7" diam.....	
8949	Deep fluted opal, 2 1/2" holder, 8" diam.....	
8950	Deep fluted opal, 2 1/2" holder, 10" diam.....	
8951	Flat fluted opal, 2 1/2" holder, 6" diam.....	
8952	Flat fluted opal, 2 1/2" holder, 7" diam.....	
8953	Flat fluted opal, 2 1/2" holder, 8" diam.....	
8954	Flat fluted opal, 2 1/2" holder, 10" diam.....	
8955	Flat fluted opal, 2 1/2" holder, 12" diam.....	
8956	Flat fluted opal, 2 1/2" holder, 14" diam.....	
8957	Flat plain opal, 2 1/2" holder, 6" diam.....	
8958	Flat plain opal, 2 1/2" holder, 8" diam.....	
8959	Flat plain opal, 2 1/2" holder, 10" diam.....	
8960	Flat plain opal, 2 1/2" holder, 12" diam.....	
8961	Flat plain opal, 2 1/2" holder, 15" diam.....	
8962	Flat plain opal, 3 1/2" holder, 6" diam.....	
8963	Flat plain opal, 3 1/2" holder, 8" diam.....	
8964	Flat plain opal, 3 1/2" holder, 10" diam.....	
8966	Flat plain opal, 3 1/2" holder, 12" diam.....	
8966	Flat plain opal, 3 1/2" holder, 15" diam.....	
8967	Dome opal, 3 1/2" holder, 8" diam.....	
8968	Dome opal, 3 1/2" holder, 10" diam.....	
8969	Deep cone opal, 3 1/2" holder, 8" diam.....	
8970	Deep cone opal, 3 1/2" holder, 10" diam.....	

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BUFFALO, N. Y., Ellicott Square Building.
NEW HAVEN, CONN., Malley Building.
PHILADELPHIA, PA., Witherspoon Bldg.
BALTIMORE, MD., Continental Trust Building.
CHARLOTTE, N. C., Trust Building.
CHARLESTON, W. VA., Charleston National Bank Bldg.
PITTSBURG, PA., Park Building.
RICHMOND, VA., 712 Mutual Building.
ATLANTA, GA., Empire Building.
NEW ORLEANS, LA., Hennen Building.
CINCINNATI, OHIO, Perin Bldg., Fifth and Race Sts.
COLUMBUS, OHIO, Columbus Savings & Trust Bldg.
CLEVELAND, OHIO, Citizens Building.
NASHVILLE, TENN., Stahlman Building.
CHICAGO, ILL., Monadnock Building.
DETROIT, MICH., Majestic Bldg. (Office of Soliciting Agt.)
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